CLARK UNIVERSITY BULLETIN

CATALOGUE FOR THE

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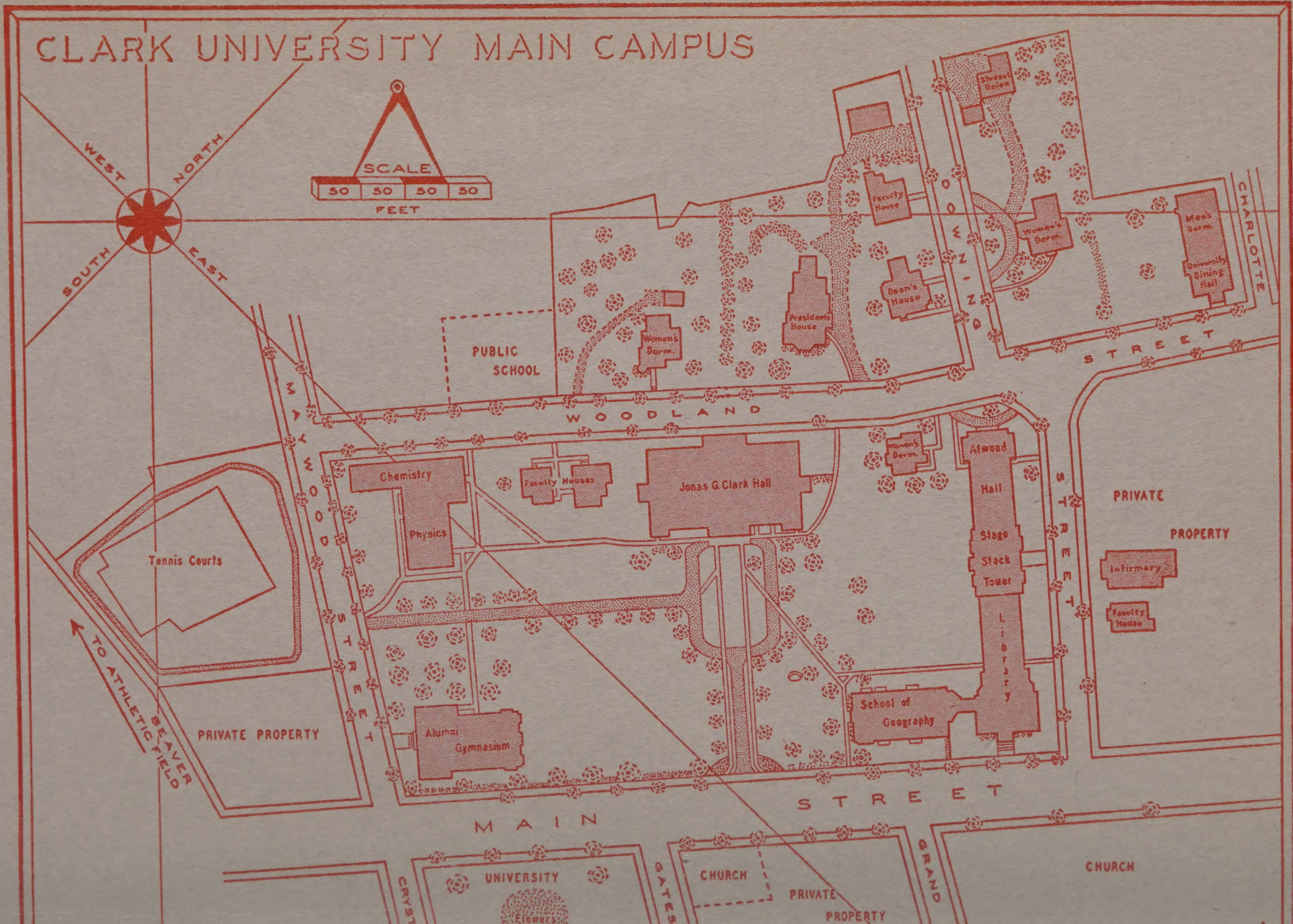
Number 210

March 1953

WORCESTER, MASSACHUSETTS

CLARK UNIVERSITY MAIN CAMPUS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Clark University Bulletin

Record of session 1952-53

announcements *Sessions of* 1953-1954

Number 210 - March, 1953

A record for the current academic year 1952-1953. Such announcements for the year 1953-1954 as can be made at the time of publication are included.

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1953

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Calendar

The academic year begins on the Monday before the fourth Thursday in September and ends on Saturday before the thirty-eighth Monday. It includes two approximately equal semesters and two vacation periods: two weeks including Christmas Day and New Year's, and one week near the first of April.

The first semester ends on the Saturday before the twentieth Monday and the second semester begins on the twentieth Monday of the academic year.

1952-53

First Semester

September 22, Monday. Registration day. Beginning of academic year 1952-53.
October 2, Thursday. Last day for payment of term bills.
October 12, Sunday. Columbus Day.
October 13, Monday. A holiday.
November 1, Saturday. Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June 1953.
November 11, Tuesday. Armistice Day. Not a holiday.
November 15, Saturday. Mid-semester reports.
November 26, Wednesday. Beginning of Thanksgiving recess at 5 p.m.
December 1, Monday. End of Thanksgiving recess at 8 a.m.
December 20, Saturday. Beginning of Christmas recess at 1 p.m.

1953

January 5, Monday. End of Christmas recess at 8 a.m.
January 13, Tuesday. Registration for second semester. Classes omitted.
January 19, Monday. Beginning of semester examination period.
January 31, Saturday. End of first semester.

Second Semester

February 2, Monday. Beginning of second semester.
February 7, Saturday. Last day for receiving applications for admission to candidacy for the degrees of Master of Arts and Master of Arts in Education in June 1953.
February 12, Thursday. Last day for payment of term bills.
February 22, Sunday. Washington's Birthday.
February 23, Monday. A holiday.
March 21, Saturday. Mid-semester reports.
April 4, Saturday. Beginning of spring recess at 1 p.m.
April 13, Monday. End of spring recess at 8 a.m.
April 19, Sunday. Patriot's Day.
April 20, Monday. Not a holiday.
May 11, Monday. Ph.D. dissertations due at Registrar's office at 9 a.m.
May 14, Thursday. Last day for senior comprehensive examinations.
May 18, Monday. A.M. theses due at Registrar's office at 9 a.m.
May 20, Wednesday. Classes omitted.
May 21, Thursday. Beginning of semester examination period.
May 30, Saturday. Memorial Day. A holiday.
June 7, Sunday. Commencement Day.

Summer School, 1953

June 22, Monday. Beginning of summer school. Registration day.
July 2, Thursday. Last day for payment of summer school tuition.
August 4, Tuesday. Beginning of summer school examinations.
August 6, Thursday. End of summer school.

1953-54

First Semester

September 21, Monday. Registration day. Beginning of academic year 1953-54.
October 1, Thursday. Last day for payment of term bills.
October 12, Monday. Columbus Day. A holiday.
November 2, Monday. Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June 1954.
November 11, Wednesday. Armistice Day. Not a holiday.
November 14, Saturday. Mid-semester reports.
November 25, Wednesday. Beginning of Thanksgiving recess at 5 p.m.
November 30, Monday. End of Thanksgiving recess at 8 a.m.
December 19, Saturday. Beginning of Christmas recess at 1 p.m.

1954

January 4, Monday. End of Christmas recess at 8 a.m.
January 12, Tuesday. Registration for second semester. Classes omitted.
January 18, Monday. Beginning of semester examination period.
January 30, Saturday. End of first semester.

Second Semester

February 1, Monday. Beginning of second semester.
February 6, Saturday. Last day for receiving applications for admission to candidacy for the degrees of Master of Arts and Master of Arts in Education in June 1954.
February 11, Thursday. Last day for payment of term bills.
February 22, Monday. Washington's Birthday. A holiday.
March 20, Saturday. Mid-semester reports.
April 3, Saturday. Beginning of spring recess at 1 p.m.
April 12, Monday. End of spring recess at 8 a.m.
April 19, Monday. Patriot's Day. Not a holiday.
May 10, Monday. Ph.D. dissertations due at Registrar's office at 9 a.m.
May 13, Thursday. Last day for senior comprehensive examinations.
May 17, Monday. A.M. and A.M. in Ed. theses due at Registrar's office at 9 a.m.
May 19, Wednesday. Classes omitted.
May 20, Thursday. Beginning of semester examination period.
May 30, Sunday. Memorial Day.
May 31, Monday. A holiday.
June 6, Sunday. Commencement Day.
September 20, Monday. Registration day. Beginning of the academic year 1954-55.

The University

Historical Note

Worcester and the University

Organization

Buildings and Grounds

The Library

Admission

Tuition and Other Charges

Dining Hall

Fellowships, Scholarships and Loans

Placement Bureau

Historical Note

CLARK University was established as a result of the long-time interest in education and the generosity of Jonas Gilman Clark, a native of Hubbardston in Worcester county and a resident of Worcester from shortly after the Civil War to the time of his death. In founding the University which bears his name Mr. Clark was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester.

The charter of the University was granted by the General Court of the Commonwealth of Massachusetts in 1887. During the ensuing two years buildings were erected and a faculty was assembled. The first students were enrolled in October, 1889.

At that time there existed in the United States, and especially in New England, reasonably ample provision for undergraduate liberal arts education. On the other hand, there was only one institution, The Johns Hopkins University, which placed particular emphasis upon original research and the training of specialists. Under these conditions Clark University performed a unique function in higher education in America by devoting its attention exclusively to graduate study and research from 1889 to 1902.

For president of the new institution, Mr. Clark and the trustees selected Granville Stanley Hall, noted psychologist of Johns Hopkins University. In Worcester President Hall organized a faculty of brilliant scholars who earned an enviable reputation for the University and decisively shaped its character. In 1900, when the Association of American Universities was founded, Clark University was one of the fourteen charter members.

In the fall of 1902, in compliance with the will of Mr. Clark, the trustees established an undergraduate college, Clark College, for young men who sought, in three years' time, "preparation for citizenship and their work in life." The administrative staff and the faculty of the College were distinct from those of the Graduate School.

From the beginning, Clark College departed from the prevailing type of American college of that day. Seriousness of purpose and hard work on the part of undergraduates were demanded. Admission requirements were flexible, but a high standard of performance was enforced. The degree of Bachelor of Arts was granted after three years of study. Student programs were heavier than was common elsewhere. The ideas of Mr. Clark and the trustees were effectively developed in the educational program which was established during the term of office of Carroll Davidson Wright, who had resigned as first United States Comissioner of Labor to serve as President of the College. After the death of President Wright in 1909, Edmund Clark Sanford, Professor of Psychology in the Graduate School was chosen to be President of the College.

In 1920, following the resignation of President Hall of the Graduate School and President Sanford of the College, Wallace Walter Atwood, Professor of Physiography at Harvard University, became president of both the graduate and undergraduate departments of the University. The election of President Atwood marked the addition of geography at both the graduate and undergraduate levels to the instructional obligations of the University. The Graduate School of Geography, with President Atwood as Director, was organized to function within the general framework of the graduate offerings.

Following 1920, significant changes occurred also in the College. The normal period of residence for the degree of Bachelor of Arts was increased from three years to four and participation in intercollegiate activities was encouraged. In 1941, a program leading to the degree of Bachelor of Business Administration was introduced under the supervision of the Division of Business Administration. Also in 1941 the Women's College of Clark University was established by the trustees of the University and women have constituted an integral part of the undergraduate student body since the fall of 1942. The requirements for admission and for a degree are the same for men and women.

In 1946 President Atwood was succeeded by Howard Bonar Jefferson who, at the time of his selection, was Professor of Philosophy and Director of the School of Philosophy and Religion at Colgate University.

Worcester and the University

When plans for the new University were taking shape in Mr. Clark's mind, he enlisted the aid of a group of far-sighted and influential Worcester citizens from whom, later, the majority of his original Board of Trustees was chosen. In this was set a pattern for cooperation between the University and the community which has persisted throughout the history of the institution. The intellectual life of the city has been enriched by the contributions of the faculty and of distinguished guests whom the University has brought to Worcester. Members of the staff have served local institutions, both public and private, in many ways. The college has opened the door to higher education for hundreds to whom the opportunity would have been denied if they had been forced to seek it elsewhere, while the graduate school has aided the more gifted to proceed to the highest levels of intellectual endeavor. Particularly noteworthy has been the service to teachers in the public school system.

On the other hand, the University has benefited by the support, both financial and intangible, which it has received from the citizens of Worcester. The interchange of services and ideas with the staffs of other Worcester institutions and the opportunity to use their libraries on a reciprocal basis have been invaluable. There is particularly close coöperation between the Department of Fine Arts and the Worcester Art Museum, between the Department of History and International Relations and the American Antiquarian Society, and between the Departments of Psychology and Education and the Worcester State Hospital. The Worcester Public Library and the University Library coöperate by avoiding duplication in the coverage of certain subjects and by a corresponding widening of the coverage in the fields assigned to each.

In short, the University is conscious that it is a part of the community and that, as such, it has both obligations and benefits. Its steadfast purpose is to strengthen the pattern of mutual interdependence and coöperation.

Organization

The University includes:

The Graduate School offering instruction leading to the degrees of Master of Arts and Doctor of Philosophy.

The Graduate School of Geography offering instruction leading to graduate degrees in Geography.

The Graduate Division of International Affairs offering instruction leading to graduate degrees in International Affairs.

The College for Men (Clark College) offering a general college program leading to the degree of Bachelor of Arts and a vocational program leading to the degree of Bachelor of Business Administration.

The College for Women offering a general college program leading to the degree of Bachelor of Arts and a vocational program leading to the degree of Bachelor of Business Administration.

The Undergraduate Division of Business Administration which supervises the program in Business Administration in the undergraduate colleges.

The Library, with an endowment separate from the endowment of the teaching branches of the University.

The Clark University Press, associated with the University for the publication of scientific books and journals.

Buildings and Grounds

The University Campus is situated on Main Street about a mile and a quarter from the business center of Worcester. The administrative and educational activities of the University are centered here. On adjacent property facing the campus on Woodland Street, are dormitories, the dining hall, and residences of the President and of the Dean of the College. A small athletic field, opposite the campus on Maywood Street, provides tennis courts and a running track. A larger field, at the corner of Beaver Street and Park Avenue, is used for baseball, soccer, and other sports. The Hadwen Arboretum, the gift of Obadiah B. Hadwen, is a tract of about twenty acres at the intersection of Lovell and May Streets.

The Main Building (Jonas G. Clark Hall), completed in 1889, is a four-story, granite and brick structure containing about ninety rooms. It houses the general academic offices of the University and the offices and classrooms of most of the departments of instruction.

The Science Building, also completed in 1889, houses the Departments of Physics and Chemistry.

The Library Building, completed in 1903, marked a departure from the style of the older buildings. Its design, which has been followed in all of the later University buildings, is a modern adaptation of the Gothic, using brick as the construction material. The original building, at the corner of Main and Downing Streets, was enlarged in 1910 by the addition of a wing extending along Main Street. Part of this wing is used for library purposes and it houses the Graduate School of Geography, the President's office and the offices of University Development and Public Relations. A second addition to provide for the growing book collections was added to the library in 1939. This is in the form of a tower which connects the Library Building with Atwood Hall.

Atwood Hall has its entrance on Woodland Street and extends along Downing Street to join the library tower. It provides an auditorium with a seating capacity of 800, which is used for weekly college assemblies and other university functions.

THE ALUMNI GYMNASIUM, completed in 1938, is at the corner of Main and Maywood Streets. It provides a playing floor of ample size with seats for 800 spectators. The Gymnasium also contains the offices of the Alumni Secretary and a comfortable lounge which provides a convenient and attractive meeting place for University organizations.

ESTABROOK HALL, at the corner of Woodland and Charlotte Streets, provides dormitory accommodations for men and contains the University Dining Hall.

WOMEN'S DORMITORIES. There are at present three women's dormitories, Fanning, Blakeslee and Woodland, all located on or adjacent to the campus.

The Library

Albert C. Gerould, *Librarian*

Marion Henderson, R. Webb Noyes, *Assistant Librarians*

Guy Burnham, *Map Librarian*

As is typical of any institution Clark University Library's collections are a reflection of the history of the institution which they serve. The early library was, as might be expected, primarily a scholar's collection, serving the needs of the men whom President Hall had assembled around him. In 1902 with the founding of Clark College an undergraduate library was established. Though these two collections were later merged to form the present University Library which now amounts to about 200,000 volumes, those classes representing subjects in which no graduate work is offered such as music and the fine arts, language and literature, philosophy and religion are still characteristically undergraduate in content.

The richest collections are of course in those fields in which graduate work is offered: geography, history and international relations, economics, psychology, chemistry, biology, and mathematics.

The psychology collection built up under the guidance of President Hall and to which he willed his own library is one of the best in the country for the period of Dr. Hall's activity. It is particularly rich in early runs of foreign journals.

Particularly noteworthy is the geography collection, assembled under the energetic direction of the late President Atwood and enriched in 1928 by the bequest by the late Col. William Libbey of Princeton, N. J., of his library, one of the finest geography collections in private hands in its time.

The library owns a collection of some 50,000 maps.

Under Mr. Clark's will, his books and paintings together with a fund for their maintenance and increase came to the University. The collections are housed in the library where a part of them are on display in a room set aside for the purpose.

Admission

Three classes of students are accepted in the University:

1. GRADUATE STUDENTS, candidates for the degrees of Master of Arts, Master of Arts in Education, and Doctor of Philosophy.

See the announcements of the graduate schools.

2. UNDERGRADUATES, candidates for the degrees of Bachelor of Arts and Bachelor of Business Administration.

See the announcements of the undergraduate colleges.

3. SPECIAL STUDENTS, persons not prospective candidates for a degree, who wish to take advantage of the opportunities for study provided by the University and who give satisfactory evidence of adequate preparation for the work which they wish to undertake.

Special students are under the supervision of the College Board.

AUDITORS may be admitted at the discretion of the administrative officers of the University. They pay the regular tuition charges but are not enrolled as students in the University and do not pay the matriculation fee.

The University reserves the right to require the withdrawal at any time of any student whose record in either conduct or scholarship fails to meet the expectations implied by his admission.

Inquiries concerning the Graduate School should be addressed to

The Secretary of the Graduate Board,
Clark University,
Worcester 10, Mass.

Inquiries concerning the colleges should be addressed to

The Dean of the Colleges,
Clark University,
Worcester 10, Mass.

Tuition and Other General Charges

Tuition and other charges which apply generally throughout the University are listed below. Charges which apply to particular units of the University are listed with the announcements of the individual units.

Matriculation fee. Each student who is formally enrolled in the University pays the matriculation fee of $5.

This fee is paid but once, even though the student's periods of residence may be interrupted, and entitles the student to receive an official academic record of his performance as a student.

Tuition. The regular tuition charge for both graduate students and undergraduates is $500 for the academic year, September to June. The corresponding charge for each semester separately is $250.

Students who enroll for smaller-than-normal programs of courses (fewer than four courses in the case of undergraduates) are charged at the rate of $100 a year for each course. The corresponding charge for a single semester is $50 for a single course.

One half of the tuition for the year is due at the beginning of each semester. If payment according to this plan is inconvenient arrangements may be made through the Bursar's office for payment in regular installments or on other mutually agreeable terms.

Since University commitments are based to a large extent on enrollment and must be entered into at the beginning of the year for the entire year, the following regulation has been adopted by the Board of Trustees of the University:

"No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun."

Laboratory fees and deposits, dormitory charges, infirmary fees, the activities fee, etc., are listed in the announcements of the Graduate School and of the Colleges. Departmental fees are listed in the announcements of the individual departments.

The University Dining Hall

The University Dining Hall is operated for the convenience of all students and the staff of the University.

Undergraduates who do not live at home are required to eat at the Dining Hall. Other members of the University are welcomed on a permanent or temporary basis or for single meals.

Attractive and well-balanced meals are served at a price which is fixed to cover only the cost to the University.

For the academic year 1952-53 the dining hall charges are $190 per semester, payable in advance or in four payments of $47.50 each on the first day of October, November, December and January. Transient patrons pay by the single meal at correspondingly reasonable rates.

Fellowships, Scholarships and Loans

Fellowships and scholarships are provided by the University from endowed funds and from other sources. Pecuniary aid to students is available also in the form of grants from a number of special funds. A limited amount of part-time employment is available in the various offices and departments of the University. Frequently, as in the case of departmental assistants, this is of a kind which yields useful experience.

Loans for educational purposes are available from a number of funds which have been created for this purpose.

Many scholarships and educational loans are provided by local sources in communities throughout the nation. Any interested person should address inquiries to school officials, churches, fraternal organizations, chambers of commerce, etc.

Detailed statements and lists of the individual funds may be found in the announcements of "The Graduate Schools" and "The Colleges."

Placement Bureau

The University maintains a Placement Bureau, with offices in Room 111 Jonas G. Clark Hall for the purpose of providing employment information to seniors, graduate students, and alumni. Students seeking employment after graduation are urged to register with the Bureau during the fall of their last year of residence. Credentials which the student places on file should be as complete as possible and carefully prepared since they may be used over an indefinite period to supply information to employers. The Bureau makes available up-to-date information about job openings and schedules interviews between students and representatives of employing firms.

Students who want part-time employment are also invited to make use of the Bureau's services.

The Graduate Schools

Admission

The Degree of Master of Arts

The Degree of Doctor of Philosophy

Fellowships, Scholarships and Other Aids

Tuition and Other Fees

The Graduate School of Geography

The Graduate Division of International Affairs

The Graduate School

The Graduate School of Clark University offers instruction and facilities for independent study to both men and women.

Correspondence concerning the Graduate School should be addressed to:

THE SECRETARY OF THE GRADUATE BOARD
CLARK UNIVERSITY
WORCESTER 10, MASS.

Programs leading to the degrees of Masters of Arts and Doctor of Philosophy are available to qualified holders of a bachelor's degree or others of similar attainments in the following fields:

Chemistry
Economics
Geography
History
International Affairs
Psychology

The degree of Master of Arts is offered also in the following fields:

Biology
Education
  (Master of Arts in Education)
Physics
Sociology

The departments which are not at present organized to accept candidates for graduate degrees offer numerous courses, in fields other than those named above, which are suitable for inclusion in the programs of graduate students.

Scholarships and fellowships are available for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy respectively.

ADMISSION TO THE GRADUATE SCHOOL

Admission to the Graduate School may be granted only by the Graduate Board on the recommendation of a department.

Application. A prospective applicant should communicate with the department in which he expects to do his major work. If he is encouraged by the department to make application, he will be provided with application blanks. These should be returned to the chairman of the department with an official transcript of undergraduate work, letters of recommendation from two persons who are competent to judge the applicant's qualifications, and a recent photograph (passport size is preferred).

In addition, applicants for admission to the graduate school are strongly urged, and may be required, to submit a record of attainment in the Graduate Record Examination. This examination tests general knowledge in the field of study covered by the curriculum of the liberal arts college. It is useful as an indication of the general preparation of the student, and as a guide in planning his course of study.

Admission. In granting admission, the Graduate Board may, with the advice of the department, prescribe a minimum period of residence, never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School is granted for entry only at a specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered the University as a regular student, his period of gradaute study is broken by more than a year, he must make formal application for reinstatement.

Admission to the Graduate School does not imply admission to candidacy for a degree.

Admission of college seniors to graduate courses. Seniors in the Men's College or the Women's College who rank in the upper third of the senior class may, in exceptional cases, be admitted to courses "primarily for graduate students" provided petitions for admission are approved by the College Board and the secretary of the Graduate Board.

THE DEGREE OF MASTER OF ARTS

An academic year of full-time study in residence, or its strict equivalent in summer sessions and part-time study, is a minimum requirement for a master's degree. Residence study is broadly defined as graduate work done at Clark University under the immediate personal supervision of at least one member of the university faculty.

A reading knowledge of a foreign language, usually French or German, may be required of candidates for the degree of Master of Arts at the discretion of the major department.

Application for admission to candidacy for a master's degree should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for this degree.

Applications will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university;
2. Obtained the written endorsement of his major department;
3. Paid the diploma fee ($10) and publication fee ($10).

Candidacy for the degree of Master of Arts holds good for three years from the date of admission to candidacy. For satisfactory reasons, candidacy may be extended once for an additional period of three years by vote of the Graduate Board. If the candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, are returned.

Course requirements. Each student must meet a minimum course requirement of five courses, or their equivalent in half courses. The program must be approved by the major department. One of the courses may be a research course devoted to the preparation of the thesis.

Thesis. The thesis will be written on a topic in the field of the student's special interest under the supervision of a member of his major department. A copy of the thesis, together with an abstract and a précis, approved by the supervising instructor, must be deposited in the Registrar's office not later than three weeks before the date of the Commencement at which the degree is to be conferred. A second copy of the thesis together with an abstract and a précis must be delivered to the major department. The abstract must not exceed 600 words in length and the précis, 75. The thesis and the abstract are deposited by the Registrar in the University Library. The précis is printed by the University in an annual publication.

Each candidate must make a satisfactory record in such written examinations as may be required by the major department, and in a final oral examination by a committee of three or more, two of whom must be members of the Graduate Board.

THE DEGREE OF DOCTOR OF PHILOSOPHY

Only such candidates as give evidence of general proficiency, power of investigation, and high attainments in the special fields in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

Requirements in foreign languages. A prospective candidate for the doctor's degree is advised to prepare himself early for the examinations in the reading of modern foreign languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these. A student must pass the foreign language examinations before he will be permitted to take the preliminary examination for the degree of Doctor of Philosophy. The language examinations are conducted by a committee composed of representatives of the modern language departments and a representative of the student's major department. The committee reports the results of the examination to the Registrar. Additional language requirements may be imposed by the student's major department.

Admission to candidacy. Applications for admission to candidacy must be filed not later than November first in any academic year, by students who hope to receive the degree at the end of that academic year.

An application for admission to candidacy will be considered by the Graduate Board when the applicant has:

1. Completed two full academic years of graduate work (or its equivalent in part-time work), one of which must be at Clark University;
2. Passed the required examinations in foreign languages;
3. Passed a preliminary examination in his chosen fields of study;
4. Obtained the written endorsement of his major department;
5. Paid the diploma fee ($25) and publication fee ($30).

Candidacy for the degree of Doctor of Philosophy holds good for three years from the date of admission to candidacy. For satisfactory reasons, candidacy may be extended once for an additional period of three years by vote of the Graduate Board. If candidacy expires without the degree having been awarded, the diploma fee and publication fee, less any expenses incurred, are returned.

Dissertation. A dissertation which is expected to make an original contribution to some special field of knowledge is required of each candidate.

The dissertation, with comments of the chief instructor and other readers, is laid before the examining committee at the final oral examination.

An abstract of the dissertation, approved by the instructor under whom it was written and not exceeding 600 words in length and a précis, not exceeding 75 words, are also required.

Two copies of the dissertation, each with an official title page and life history page, two copies of the abstract and a copy of the précis must be provided in a form which is prescribed and each copy must be signed by the chief instructor.

Four weeks before the date of the Commencement at which the degree is to be conferred the first, or ribbon, copy of the dissertation, together with the corresponding copy of the abstract and the précis must be delivered to the Registrar of the University. The Registrar deposits the dissertation and the abstract in the University Library where they remain permanently. At the same time the second copy of the dissertation and of the abstract must be delivered to the major department.

A microfilm copy of each dissertation is made by University Microfilms, Incorporated, of Ann Arbor, Michigan, and is available for duplication by them on request. The abstract is printed in *Dissertation Abstracts,* which is widely distributed both in this country and abroad to subscribing libraries and leading abstracting services. The précis is printed in an annual publication by the University.

Final examination. The final examination is oral and lasts for at least two hours; additional written examinations may be given if the major department so directs. The candidate is expected to defend his dissertation and, at the discretion of the examining committee, may be questioned on the entire special field of his study. The oral examination is conducted by a committee of at least four members, including the chairman and one other member of the major department, a member of the Graduate Board under whom the candidate has done no work (unless such a member has participated in the preliminary examination of the candidate), and such other members of the Graduate Board as may be duly appointed. The president of the university is authorized to invite any person from within or without the University to be present and to assist in the examination.

GRADUATE FELLOWSHIPS, SCHOLARSHIPS AND ASSISTANTSHIPS

Graduate fellowships and scholarships are provided by the University from endowed funds and from other sources. Pecuniary aid to graduate students is available also in the form of grants from a number of special funds. A limited amount of part-time employment is available in the various offices and departments of the University. Frequently, as in the case of departmental assistants, this is of a kind which yields useful experience.

Loans for educational purposes are available from a number of loan funds on terms which are stated under the heading *Loans for Graduate Students.*

Both outright grants and loans for educational purposes are provided in many sections of the United States by local foundations, fraternal organizations, civic groups, etc.

Graduate fellowships and scholarships are available for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy. Appointments are made on the basis of scholarly promise and seniority and on the recommendation of the departments. The number of appointments available in any department varies from year to year. Fellows and scholars are expected to coöperate with the staffs of the various departments, and may by mutual agreement undertake limited responsibilities. They are never called upon to perform services which would interfere with the completion of a full-time program of graduate study.

In a case where assistance in the department, either in research or teaching, is to be a duty of the fellow, an appointment may be designated as a research fellowship or a teaching fellowship. An appointment of this nature is made on the recommendation of the department and with the consent of the applicant.

Assistantships are available in certain departments. Appointments to these positions are usually made from the list of fellows. Application should be made to the chairman of the department.

Application for a scholarship or fellowship should be made before March first to the chairman of the department in which the applicant expects to do his major work. An application, after being endorsed by the department, goes to the Graduate Board for final action.

According to an agreement between the members of the Association of American Universities, elections of fellows and scholars will be communicated on April first, but not before, to each member of the Association and to each successful candidate.

Stipends for graduate fellowships and scholarships are provided by the following funds:

The George Frisbie Hoar Fund, the gift of Andrew Carnegie in honor of the second president of the Board of Trustees.

The Austin S. Garver Fund, a bequest from Austin S. Garver, member of the Board of Trustees from 1908 to 1918.

The Charles H. Thurber Fund, provided by Charles H. Thurber, member of the Board of Trustees from 1913 to 1938 and President of the Board from 1919 to 1937.

The George S. Barton Fund, a bequest from the Honorable George S. Barton of Worcester. The income of this fund is for the benefit of native born citizens of the City of Worcester.

The Alumni Association Fund, provided by alumni who hold the degree of Doctor of Philosophy, is for the benefit of students who are studying for that degree.

Teaching fellowships are available in certain departments. These involve a specified amount of instruction with stipends which vary according to the amount of service agreed upon.

Assistantships are available in several departments. These positions involve a variety of services with stipends to correspond, and usually provide the student with experience which will be useful in his later professional work.

Inquiries concerning any of the above types of appointment should be addressed to the chairman of the department concerned.

AID FOR GRADUATE STUDENTS

Student aid is available from the following funds, with the restrictions noted.

THE JOHN WHITE FIELD FUND established by Mrs. Eliza W. Field to provide for the minor needs of a scholar or fellow.

THE ELIZA D. DODGE FUND. The income of this fund is granted to graduate students of limited means who are engaged in research work.

THE CHESTER BLAND FUND. The income of this fund is preferably used to provide aid to a promising student, either in residence or engaged in research elsewhere under the direction of the department of History and International Relations. It may also be used to defray the expense of visiting lecturers or of departmental research.

THE MORTON L. "SONNY" LAVINE FOUNDATION, a memorial to Lieutenant Lavine of the United States Army, World War II. The income is to be used for the promotion of research in the Department of History and International Relations.

LOANS FOR GRADUATE STUDENTS

Loans are available for graduate students from the following funds. These loans bear interest at four per cent per year.

ALUMNI LOAN FUNDS. Loans from these funds are available on suitably endorsed notes. Applications require the approval of the student's major department, the Committee on Credentials of the Graduate Board, and the chairman of the Alumni Loan Fund Committee.

THE MARY S. ROGERS SCHOLARSHIP AND LOAN FUND was established in 1926 for the benefit of students in the Graduate School.

THE SARAH M. THURBER LOAN FUND was established by the late Dr. Charles H. Thurber, former president of the Board of Trustees, as a memorial to his mother. This fund is administered by the president of the University.

TUITION AND OTHER FEES

Matriculation fee. This fee, $5.00, is collected from every student before he is formally enrolled in the University. Official academic records are issued to matriculated students only.

Tuition. The regular tuition charge of the University is $500.00 per year, payable in two equal instalments, at the beginning of each semester.

Students who are enrolled for less than a full-time program are charged at the rate of $50.00 per course per semester.

Miscellaneous fees.

Graduate students in geography pay a camp fee, a workroom fee and a classroom-materials fee. Details are given in the announcement of the Graduate School of Geography.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

Graduate students who use the gymnasium pay a fee of $10 per year.

Dining Hall. The University Dining Hall provides well balanced meals served in attractive surroundings at the rate of $190.00 per semester. For shorter periods and for single meals there is a correspondingly reasonable charge.

The Graduate School of Geography

Samuel Van Valkenburg, Ph.D., Director of the Graduate School of Geography and Professor of Geography

Raymond E. Murphy, Ph.D., Professor of Economic Geography; Editor, *Economic Geography*

Richard J. Lougee, Ph.D., Professor of Physiography

Henry J. Warman, Ph.D., Associate Professor of Geography; Secretary of the Graduate School of Geography

Edward C. Higbee, Ph.D., Associate Professor of Geography

Guy H. Burnham, A.M., Cartographer and Instructor in Geography

Erwin Raisz, Ph.D., Visiting Lecturer on Cartographic Techniques

Dieter Brunnschweiler, Ph.D., Visiting Lecturer, second semester

SPECIAL LECTURES, 1952-53

Hans Boesch, Ph.D., Head, Department of Geography, University of Zurich, Switzerland

Chauncy Harris, Ph.D., Professor of Geography, University of Chicago

R. H. Kinvig, Ph.D., Head, Department of Geography, University of Birmingham, England

Derwent Whittlesey, Ph.D., Professor of Geography, Harvard University

The Graduate School of Geography offers opportunity to properly qualified students for advanced training in geography. The map collection, libraries, and special laboratories for cartography provide unusual facilities for research work in residence. The Staff, composed of specialists in their various fields of geography, must spend part of their time in travel and field studies. While in residence, the staff members offer regular courses of instruction and direct advanced students in research work. Special lecturers, both American and foreign, supplement the regular Staff. Not all courses of instruction are offered each year; many are given in alternate years. All graduate students are encouraged to undertake independent field studies as part of their university work.

GRADUATE WORK IN THE SCHOOL OF GEOGRAPHY

(Please read also the preceding section of this catalogue, under the heading "The Graduate School".)

The degree of Master of Arts

Work is offered leading to the degrees of Master of Arts and Doctor of Philosophy in Geography. Candidates for the master's degree will pass written examinations in at least six of the following fields: physiography, climatology, soils, biogeography, land utilization, economic geography, human geography and cultural geography, regional geography, political geography, and urban geography. The oral examination for the master's degree covers four fields approved by the Staff. The master's degree requires two years except for those whose preparation has been adequate enough in fundmentals to enable them to qualify in less time.

The degree of Doctor of Philosophy

Candidates for the doctor's degree in geography are required to submit superior written examinations, and to pass a general oral examination covering six fields approved by the Staff. This oral examination will be scheduled after the language requirement is fulfilled. In general, a year of work beyond the master's degree should prepare a candidate for the general examination preliminary to his acceptance as a candidate for the doctor's degree and to his concentration work for his dissertation. This year of course work may well include, besides certain advanced courses in geography, related advanced studies in other fields.

Theses and dissertations

The master's thesis must be submitted to the major professor at least three weeks before it is to be deposited with the Registrar. This is necessary since theses must rotate among and receive final approval of all staff members. Doctoral dissertations must be submitted at least four weeks before the completed copies are due at the office of the Registrar. Dissertations must be circulated first and then defended. Since the final copy of dissertations is on special thesis paper, it is requested that candidates submit for staff circulation the next-to-final drafts. Such a procedure facilitates changes before the dissertations are typed in final form.

Attention is called to the fact that all dissertations are now reproduced in full on micro-film. Hence maps and other graphic devices in color will not reproduce satisfactorily.

DISTINCTIVE FEATURES

In addition to its location in a natural setting rich in physical attributes worthy of investigation, the Clark University Graduate School of Geography is within easy access of such research centers as Harvard and Yale Universities, Boston cultural centers and the American Geographical Society in New York.

The Clark Graduate School has become a traditional "port of call" for most professors of geography in this and other countries. Their stays have ranged from one hour to as long as six months or a year. Clark graduate students are invited to, and do, visit with these leaders in the field of geography.

The graduate students are assigned desks and shelves in the Geography Workroom on the first floor. Staff offices are located on the floor immediately above; hence conferences are easily and frequently arranged. Both workroom and classroom have immediate connections with the periodical room and the open shelves of the library. A general conference room where visiting professors are made welcome and where seminars are held is located on the first floor in the Libbey Library.

Each year the workroom group elects its own officers. Management of the workroom activities and publication of *The Monadnock,* which has kept Clark Geography alumni in their many and widespread occupations informed for over thirty years, is the responsibility of the workroom officers.

The professional magazine, *Economic Geography,* is edited by a staff member. Launched at Clark University over a quarter of a century ago, it is the only magazine published in English that specializes in the economic phases of geography.

An outstanding feature of the Graduate School of Geography is the field camp of three weeks' duration at the beginning of the fall term. All resident prospective candidates for graduate degrees in geography are expected to attend the field camp each autumn. The field program includes studies in physiography, land utilization, urban geography and weather, with special training in mapping and other field techniques. Following the return to the campus, about ten days are allowed for the completion of field reports. Formal course work begins on the second Monday after the close of the field camp.

Formal course work in geography ends about May 1st, leaving students free to read and to coordinate their work prior to the examination period.

The Alpha Sigma Chapter of Gamma Theta Upsilon, national geography fraternity, provides professional and social affiliations between graduate and undergraduate geography majors.

SPECIALIZATION

There are certain basic courses that everyone takes, particularly prospective candidates for the master's degree. However, with the increasing complexity of world problems it has become impossible for anyone to be proficient in all phases of geography. Realizing this, candidates for the Doctor's degree are encouraged to specialize. The selection of the specialty depends upon the interests of the student, his choice of courses, and the topic for his dissertation.

STUDENTS' FEES

All geography students in residence must pay, in addition to the general university fees, the camp fee, the workroom fee, and the classroom-materials fee.

The camp fee, determined on a cost basis, varies between $50 and $80, payable to the camp director on or before the first day of camp. The camp fee covers in addition to tuition, board and lodging, transportation, maps, drafting supplies, and the use of meteorological instruments and other equipment for the three weeks' period.

The workroom fee, $5 a semester, is payable to the department November first and March first. It helps to maintain the geography workroom and equipment used by graduate students—alcove desks, files of maps, card catalogue, adding machine, darkroom facilities, drafting tables, and instruments.

The classroom fee, $5 a semester, is payable to the department November first and March first. It is for mimeographing and for the maintenance, in part, of the classroom wall maps and other equipment.

The Graduate Division of International Affairs

Geography, Diplomacy, Economics

ADMINISTRATIVE COMMITTEE

James A. Maxwell, *Professor of Economics.*

Samuel Van Valkenburg, *Director of the Graduate School of Geography.*

Dwight E. Lee, *Professor of Modern European History.*

The Graduate Division of International Affairs aims to meet a demand for graduate work which will be devoted entirely to the general field of international affairs and which will include work in geography, history and international relations, and economics. This division groups together appropriate courses and seminars in order to prepare graduate students for the government service of the United States, college and university professorships in international affairs, posts in corporations and banks doing foreign business, and research and administrative positions in the field of world affairs. The courses include offerings in political, regional and economic geography; foreign trade, commerce, and finance; international law; modern and diplomatic history; and the foreign policy and international relations of the United States.

ADMISSION

Qualified graduate students who are interested in a program in International Affairs are enrolled either in the Department of History and International Relations or in the Department of Economics and Sociology or in the Graduate School of Geography. Inquiries and applications may be addressed to any one of them.

PROGRAMS

Programs in International Affairs are adjusted to the special interests of the individual students. Programs are arranged in consultation with the staff and require the approval of the committee in charge of the division.

The Undergraduate Colleges

- The Colleges
  - Admission
  - Induction Period and Faculty Advisers
  - Registration and Student Programs
  - Requirements for a Bachelor's Degree
  - Grades and Scholarship Standards
  - Examinations
  - Honors
  - General College Regulations
  - Fees and Expenses
  - Student Activities
  - Scholarships and Educational Loans
- The Men's College
- The Women's College
- The Division of Business Administration

The Undergraduate Colleges

The Men's College, established in 1902, and the Women's College, established in 1942, constitute the undergraduate colleges in Clark University. Financially the two colleges are independent, educationally they operate as a unit.

Requirements for admission and for a degree are identical in the two colleges with the exception of required physical training and health education.

Correspondence concerning the colleges should be addressed to

The Dean of the Colleges,
Clark University,
Worcester 10, Mass.

The colleges offer educational programs in the field of liberal arts and in the professional field of Business Administration. A special program which combines the essentials of the liberal arts program with basic training in art is offered in cooperation with the Worcester Art Museum.

The liberal arts program emphasizes breadth of training through requirements in each of the principal areas of human culture combined with the intellectual discipline resulting from a moderate degree of concentration in some selected field of special interest. The program possesses a large degree of flexibility permitting adaptation to a wide variety of individual interests. This program leads to the degree of Bachelor of Arts.

The program in business administration is designed to give a training suitable for those who will occupy positions of responsibility in the fields of commerce and industry. A moderate degree of specialization in some field of administration is combined with broad consideration of the principles and techniques of modern business and of the inter-relations between business and the society within which it operates. This program leads to the degree of Bachelor of Business Administration.

The Division of Business Administration is the agency which supervises the college program in business administration.

A program leading to the degree of Bachelor of Arts in which the essentials of a liberal education are combined with sound professional foundations in art is offered in cooperation with the Worcester Art Museum. Details of this program are given in the announcement of the Department of Fine Arts.

Information which is of interest to all students in the colleges is given in the succeeding pages, followed by separate announcements of the Men's College, the Women's College and the Division of Business Administration.

Admission

Inquiries concerning admission and requests for blank forms should be addressed to

THE DEAN OF THE COLLEGES,
CLARK UNIVERSITY,
WORCESTER 10, MASS.

Formal application for admission should be made at the earliest possible date.

Each application should be accompanied by the scholastic record of the applicant, and a deposit of five dollars. The deposit is used to pay the university "matriculation fee" if the applicant is accepted. It is returned if he is not accepted. Each application should also include the names and addresses of three responsible persons who are qualified to give information regarding the character and personality of the applicant.

ADMISSION TO THE FRESHMAN CLASS

An application for admission to the freshman class should, if possible, be presented not later than the middle of the applicant's last year in the preparatory school.

The completion of a four-year high school course or its equivalent, including fifteen acceptable units of credit, is normally required for admission to the undergraduate colleges. The term "unit" is understood to mean approximately one quarter of a pupil's normal program for the school year.

An applicant must furnish official records from all preparatory schools which he or she has attended. Records of scholastic aptitude tests and of College Board examinations are always of value and may be required.

The subject matter requirements for admission to the freshman class are as follows:

For the Degree of Bachelor of Arts

Required subjects, 7 units

English (four years)	3 units
**Mathematics* (algebra and geometry)	2 units
†*Foreign language* (in one language)	2 units

Restricted electives, 5 or more units in addition to the required units

Mathematics	1 or 2 units
‡*Foreign language*	1 to 4 units
Social sciences (history, government, civics, economics, etc.)	1 to 3 units
Natural sciences (physics, chemistry, biology, etc.)	1 to 3 units

Free electives, not more than 3 units

Subjects recognized by the applicant's preparatory school in its regular program, at the discretion of the Committee on Admissions.

For the Degree of Bachelor of Business Administration

Required subjects, 8 units

English (four years)	3 units
Mathematics (algebra)	1 unit
†*Foreign language* (in one language)	2 units
Social studies	2 units

Elective subjects, 7 units

Subjects recognized by the applicant's preparatory school in its regular program, at the discretion of the Committee on Admissions.

As many as three of these units may be in "commercial subjects".

Quality Requirements. "Certification" by the principal of the preparatory school in at least thirteen of the fifteen required units is normally necessary for admission without examinations. An exception may be made if the applicant ranks in the upper quarter of the class with which he graduated or if the principal is willing to give a "blanket certification" without consideration of specific subjects. In the latter case the principal accepts complete responsibility for the applicant's success in college.

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*Applicants expecting to specialize in science are advised to present at least three units of mathematics.

†Normally required.

‡A single "beginning Unit" in a foreign language is not recognized as an acceptable unit.

Entrance Examinations. Applicants who cannot present the necessary number of certified units should arrange, in consultation with the Dean of the college, to take examinations which are given by the College Entrance Examination Board. The college will determine in each case what constitutes a satisfactory record in such examinations.

A bulletin of information concerning these examinations may be obtained without charge from the College Entrance Examination Board, P. O. Box 592, Princeton, N. J., or, for the far west, from P. O. Box 9896, Los Feliz Station, Los Angeles 27, Calif. Inquiries should be sent to the Board at least one month in advance of the dates of the examinations, which are scheduled for March 14, May 16, and Aug. 12 in 1953.

ADMISSION WITH ADVANCED STANDING

A student who wishes to enter the college after attending another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his, or her, academic record at the institution last attended, and such other information as the Committee on Admissions may request. If admitted, the applicant will be provisionally classified as a freshman, sophomore, junior, or senior and will be permitted to register for a program of studies corresponding to this classification. After a semester in residence with a satisfactory record, appropriate credit for courses of college grade which have been completed elsewhere will be recorded.

A graduate of the three year course of the Worcester Art Museum School may be admitted as a candidate for the degree of Bachelor of Arts with the rank of *junior* in the college. In such cases the usual admission requirements must be met and the general subject-matter requirements of the colleges must be satisfied.

The bachelor's degree will not be conferred upon a student until he has spent at least a year in residence at Clark University, and usually not unless the period of residence includes the two semesters immediately preceding the granting of the degree.

ADMISSION OF SPECIAL STUDENTS

Applicants for admission as special students should address their inquiries to the Dean of the Colleges and should be prepared to supply evidence of qualification for the study which they wish to undertake.

Registration and Student Programs

INDUCTION PERIOD

All freshmen, both men and women, and all upper-class women who are entering the University for the first time meet for a few days preceding the opening of the academic year in September for an induction period.

Details are given in the announcements of the separate colleges.

There is a fee of ten dollars for the induction period.

FACULTY ADVISERS

When a student is admitted to either the Men's College or to the Women's College he or she is assigned to a member of the faculty who advises the student in respect to a program of courses and other matters. At the beginning of the freshman year the advisers are chosen from a limited group of freshman advisers. Later each student is encouraged to select an adviser of his own choosing. A change of advisers may be made on formal request addressed to the Dean.

The adviser assists the student in choosing his program of studies and is available at all times for consultation on any matter which the student may wish to discuss with him. Ideally the adviser-student relationship develops into a relationship of mutual regard which frequently endures long after the college course has been completed.

REGISTRATION

Each student is required to register for a detailed program of courses at the beginning of every semester. Official notice is given well in advance of the dates on which registration is required. Failure to register within the period designated involves a charge of one dollar for each day's delay up to a maximum of five dollars.

Changes in registration may be made, with the approval of the student's adviser, for a limited time after the end of the registration period. Later changes involve a formal petition to the College Board.

After the first four weeks of any semester withdrawal from a course normally involves a record of "failure" in the course. An exception to this regulation is made in cases where the withdrawal reduces the student's program from six courses to five.

STUDENT PROGRAMS

An undergraduate student normally carries a program of five courses throughout the academic year, September to June, in addition to required physical training. In general it is expected that a course meeting three times weekly will require a minimum of two hours of preparation for each lecture or recitation. Laboratory periods are usually three hours in length.

A student carrying the regular program should, therefore, expect his college work to require from forty-five to fifty hours of his time per week, in addition to the time required for physical training.

College regulations are designed to permit a large degree of freedom in the adjustment of programs of study to individual differences of interest. Even in the freshman year, when the program is largely determined by the degree for which the student is enrolled, each student makes certain individual choices where alternative requirements or free electives are involved. Such choices deserve the most careful consideration since they frequently affect the general pattern of a student's program for the entire four years of the college course.

FRESHMAN PROGRAMS

A freshman must choose his entire program from courses designated as "open to freshmen."

The following programs are required in the freshman year:

For the Degree of Bachelor of Arts

1. *English 11,* Composition and Literature.
2. *A course in a foreign language.*
3. *A course in "Group A,"* science and mathematics.
4. *A course in "Group B,"* social sciences.
5. *An elective.*

   Mathematics 11 must be elected by students who expect to choose a major in Group A. This includes both pre-medical and pre-dental students.

For the Degree of Bachelor of Business Administration

1. *English 11a.* Composition. First semester.

   Business Administration 14b, Business English. Second semester.
2. *Business Administration 10a,* Elements of Distribution. First semester.

   Business Administration 10b, Elements of Production. Second semester.
3. *Business Administration 117,* Principles of Accounting.
4. *Business Administration 13,* Business Mathematics.
5. *An elective.*

SOPHOMORE PROGRAMS

A sophomore must give priority in his program to any subject requirements which remain to be satisfied and should provide for an introduction to the field or subject in which a "major" or an "integrated program" will be chosen. The remaining elective choices provide the opportunity for each student to broaden the range of his interests.

The selection of a major subject is required of candidates for the degree of Bachelor of Arts at the time of registering for the sophomore year.

Sophomores may elect any course designated by a number beginning with the numeral 1, indicating "primarily for undergraduates"; they are not admitted to courses "for advanced undergraduates and graduate students," designated by numbers beginning with the numeral 2.

JUNIOR AND SENIOR PROGRAMS

Programs for the junior and senior years should be planned as a unit. This brings the entire college course under scrutiny; concentration, balance and diversity can be seen in relation to each other and adjusted to desired proportions; the inevitable choices between desirable courses, since all cannot be included in the program, can be made and costly mistakes due to haste and the overlooking of important facts can be avoided. Failure so to plan may result in the omission of important courses because of conflicts in the schedule or the alternation of courses in successive years.

The selection of an "area of concentration" is required of each candidate for the degree of Bachelor of Business Administration before the beginning of the junior year.

Juniors and seniors may elect any courses "primarily for undergraduates" or for "advanced undergraduates and graduate students" subject to any conditions stated in the descriptions of the courses. Under special conditions and with the approval of the College Board and of the Secretary of the Graduate Board in each case seniors may be admitted to courses "primarily for graduate students" designated by numbers beginning with the numeral 3.

ACCELERATED PROGRAMS

At least three years of college study in residence is required for a bachelor's degree. A student may earn the degree in this minimum time, or in three and one-half years, if he is prepared to make the additional effort which is required and is able to maintain the required level of scholarship.

Such accelerated programs are possible through a combination of six-course programs during the regular academic year and attendance at summer schools. Credit toward a degree for study at a summer school is granted only when it is officially authorized in advance in each individual case.

To complete the requirements for a bachelor's degree at the end of three years it is necessary for a student to carry a six-course program through all three years and to attend two six-week summer schools. Only students of exceptional ability and in excellent physical condition are advised to undertake such a program. To complete the requirements for a bachelor's degree at the end of three and one-half years it is necessary for a student to accumulate, within that time, credit for two and one-half courses in addition to a regular program. This may be accomplished without attendance at summer school if the student carries a six-course program through two and one-half years. More commonly a student will attend two summer schools and carry a six-course program through three semesters, or attend three summer schools and carry six courses through two semesters.

SIX-COURSE PROGRAMS

A student whose average grade for any semester is C+ or better is permitted to register for a program of six courses for the following semester.

A senior whose graduation within the academic year depends on the completion of a six-course program during that year may register for such a program in either semester if his average grade for the preceding semester is C– or better.

A freshman may normally register for a program of six courses in the first semester of his freshman year. In subsequent semesters he is subject to the regulation stated above.

There is an additional tuition charge of fifty dollars for each semester in which a student registers for a six-course program.

SMALL PROGRAMS

Under special circumstances programs of fewer than five courses may be permitted. In general no change of status or of obligation of a student is involved when a program is reduced to four courses, nor is there any reduction in the charge for tuition.

A student whose program consists of fewer than four courses is designated as a part-time student. Part-time students are excused from the requirement in physical training, are not required to attend the weekly assembly and do not pay the "activities fee". They are charged for tuition at the rate of fifty dollars for each course in each semester.

PROGRAMS FOR SPECIAL STUDENTS

Special students register for such programs as they agree upon in consultation with the instructors concerned. They are not required to attend the weekly assembly nor are they subject to a requirement in physical training. Special students who register for programs of five or six courses are required to pay the activities fee; others are not required to pay this fee.

Special students pay tuition at the rate of fifty dollars for each course for each semester.

Requirements for a Bachelor's Degree

The fields in which instruction is offered in the colleges are classified for administrative purposes in four "groups" as follows:

GROUP A (Science and Mathematics). Biology, botany, chemistry, experimental psychology, geology, mathematics, physics, and physiology.

GROUP B (Social Sciences). Economics, education, geography, government, history, international relations, philosophy, psychology, and sociology.

GROUP C (Language and Literature). Greek, Latin, English, French, German, Russian, Spanish, and an interdepartmental course in language and literature.

GROUP D (Fine Arts). Art and Music.

All college regulations involving a quantitative statement of credit are expressed in terms of courses.

A course as a unit of credit normally implies three or four class meetings or laboratory exercises per week throughout two semesters and constitutes one-fifth of a student's normal program. Where departments offer fractional courses, these will be combined in reckoning a student's total credit in courses. Students admitted to classes primarily for graduate students receive credit of one-half course per semester irrespective of the number of class meetings.

A student in good standing who completes the requirements for either the degree of Bachelor of Arts or the degree of Bachelor of Business Administration as stated below will be recommended for the corresponding degree unless, in the judgment of the College Board, there is cause for withholding the recommendation.

GENERAL REQUIREMENTS FOR A BACHELOR'S DEGREE

The following requirements, 1 through 5, apply to all candidates for a bachelor's degree.

1. *Residence.* Not less than three academic years of college study in residence. At least one full year and usually the last year before the degree is conferred must be spent at Clark University. A year in residence signifies the satisfactory completion of five year courses at Clark University.

2. *Course requirements.* Twenty courses in addition to required physical training, except in the case of veterans who are eligible for benefits under Public Laws 16 or 346 as amended by Public Law 268, and veterans who are eligible under Public Laws 550 and 894. Such veterans will normally be graduated on the completion of nineteen courses, credit for the twentieth course being granted for military service and miscellaneous training in service.

   A satisfactory scholarship record must be maintained throughout the entire program.

3. *Comprehensive examinations.* Beginning with the Class of 1953, a satisfactory record in a comprehensive examination is required of every candidate for a bachelor's degree in Clark University with the exception of those in the liberal arts program whose majors are in the fields of Biology, Chemistry or German.

4. *Physical training.* Three years of physical training, two hours per week. Veterans who have completed the basic training for any branch of military service and those who served in the Merchant Marine are excused from the requirement in physical training.

5. *Assembly.* Attendance at a weekly assembly is required.

Requirements 4 and 5 are in addition to the course requirements as stated above.

In addition to the general requirements 1 through 5, the following special requirements apply to candidates for the degree of Bachelor of Arts and for the degree of Bachelor of Business Administration respectively.

A. Special Requirements for the Degree of Bachelor of Arts.

6A. *A major.* Seven courses.

The major will normally include certain of the courses specified in the following requirements.

7A. *Group A.* Two courses, one in each of two different fields.

8A. *Group B.* Two courses, one in each of two different fields.

9A. *Foreign language.* Minimum, one course.
  a. One course in the freshman year.
  b. One course at or beyond the level of a third year college course.

10A. *English.* One and one-half courses.
  a. English 11. In the freshman year.
  b. An additional half-course in English.
  c. Satisfactory proficiency in the use of English.

11A. *Fine Arts.* A half-course chosen from a specified list.

NOTES ON SPECIAL REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

6A. Majors.

A departmental major consists of seven courses designated by the department for this purpose. Four or five of these must be courses in the major subject; the remaining courses must lie in fields of study closely related to the major subject.

For the completion of an acceptable major at least eleven of the fourteen semester grades involved must be higher than C—.

Mathematics 11 is a requirement in the freshman year for a student who intends to major in group A, including pre-dental and pre-medical students. This course may, with the approval of the major department, be included in the seven courses constituting the major.

Students majoring in Group C who have not offered at least two units of Greek or Latin for admission are required to take a year's course in either classical civilization or elementary Greek or Latin. The course satisfying this requirement may, with the approval of the major department, be included in the seven courses constituting the major. The choice between "civilization" and language is subject to the approval of the major department. If a language course is chosen, this requirement should normally be satisfied during the freshman year.

An interdepartmental major includes eight or more courses chosen with regard to related content and purpose in fields which cross departmental boundaries. Three such programs are now available. These will be found fully outlined in the alphabetical list of "Departments and Courses."

7A. Group A.

The two courses may not be distributed between more than two fields of study. One of them *must* be a laboratory course.

Courses in the history of the sciences are not counted toward the fulfillment of this requirement.

8A. Group B.

The two courses may not be distributed between more than two fields of study.

9A. Foreign Language.

Requirements (a) and (b) may both be satisfied by a single course taken in the freshman year.

Students whose previous education has been largely in a language other than English are relieved of this requirement upon the completion of English 11.

11A. Fine Arts.

The required half-course must be chosen from the following list: Fine Arts 11, 12b, 13b, 191a, 192a; Music 12, 13, 15; French 113; German 141; Greek 123a; Latin 123b.

B. Special Requirements for the Degree of Bachelor of Business Administration.

6B. *An "integrated program"* for the junior and senior years, ten courses.

This program will normally include certain of the courses specified in the following requirements.

7B. *Business Administration,* three courses.

a. Business Administration 10a, Elements of Distribution and 10b, Elements of Production. In the freshman year.

- b. Business Administration 18, Business Organization and Finance.
- c. Business Administration 220, Analysis of Business Problems.

8B. *Economics,* two courses.
- a. Economics 11, Principles of Economics.
- b. Economics 13, Money and Banking.

9B. *Government,* one course.
Government 15, Introduction to Government.

10B. *Business Law,* one course.
Business Administration 20.

11B. *Business Mathematics,* one course.
Business Administration 13. In the freshman year.

12B. *Accounting,* one course.
Business Administration 117, Principles of Accounting. In the freshman year.

13B. *Statistics,* one course.
Business Administration 16, Business Statistics.

14B. *English,* one and one-half courses.
- a. English 11a, Composition; Business Administration 14b, Business English. In the freshman year.
- b. Business Administration 17a, Public Speaking. A half-course.

NOTES ON SPECIAL REQUIREMENTS FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

6B. The Integrated Program.

This program is based on the choice of a "field of special interest" within the general area of business administration and must be submitted to the student's faculty adviser at the end of the sophomore year. Ordinarily a program will not be approved unless it includes, in addition to the required courses which are listed below, at least five courses in Business Administration or closely related subjects.

Typical areas of concentration for integrated programs are:

Accounting
- Intermediate Accounting
- Cost Accounting
- Auditing
- Advanced Accounting
- Industrial Management
- Federal Tax Accounting

Management
- Cost Accounting
- Analysis of Business Problems
- Industrial Relations
- Industrial Management
- Techniques of Managerial Control
- Industrial Psychology

Finance

- Business Organization and Finance
- Money and Banking
- Public Finance
- Business Cycles
- Analysis of Business Problems

Foreign Trade

- Principles of Marketing
- International Economics
- Economic Geography
- Industrial Psychology
- A foreign language

Marketing

- Elements of Distribution
- Salesmanship
- Advertising
- Marketing Research
- Sales Management
- Retailing Principles

Personnel Management

- Industrial Psychology
- Personnel Management
- Industrial Management
- Industrial Relations
- Labor Problems

8B.

Under special conditions Economics 13 may be replaced by certain other courses in economics.

Grades and Examinations

GRADES

At the end of each semester grades are reported for each student in each course in terms of A, excellent; B, good; C, average; D, poor; F, failure. The modifying symbols plus (+) and minus (–) are used with each of these letter grades with the exception of F, giving twelve levels of passing grades. A report of "incomplete" is permitted only when severe sickness or some other equally unavoidable circumstance prevents the completion of a course.

A record of "failure" in a course is final and not subject to change on the basis of any subsequent performance of the student who is involved. Credit for a course in which a failure has been reported may be secured only by repeating the course and earning a passing grade.

SCHOLARSHIP STANDARDS

Courses with the grades of D+, D or D– may not be counted toward a bachelor's degree beyond one-quarter of the total credit required; i.e., not more than five (5) such courses, or their equivalent in fractional courses, may be counted. In the administration of this regulation only grades received and credit earned in Clark University are considered. If grades are not available for some of the twenty courses required for the degree, the maximum credit which may be counted with grades of D+, D or D– is reduced to one-quarter of the total credit from all courses in which grades are available.

Classification of students. A student continues to be listed in the class with which he or she entered college until the end of the third, or junior, year. At this time only those students who have credit for at least fourteen courses with a minimum of eighteen semester grades of C– or better are promoted to the senior class.

Probation. Students with unsatisfactory grades are placed on probation. Failure of a student to remove himself from probation after two consecutive terms or three non-consecutive terms normally results in separation from college.

EXAMINATIONS

Final examinations are regularly given at the end of each semester in all college courses. Approximately two weeks are set aside for each examination period and an attempt is made to distribute the examinations for any individual student throughout this period. Absence from a final examination except for the most compelling reasons, usually results in a record of failure in the course.

Other examinations and tests may be given at any time during the semester at the convenience of the instructors.

COMPREHENSIVE EXAMINATIONS

"Comprehensive examinations" in a student's major subject are given in the spring of the senior year. These examinations test the student's grasp of the subject as a whole and do not duplicate the individual course examinations.. They are designed to determine whether the student has achieved a reasonable integration of the subject matter which has been presented in the separate courses.

"Comprehensive examinations" will be given for the first time in the spring of 1953. They will consist of at least four hours of written work plus a possible oral or laboratory examination. Students who do not pass the comprehensive examinations will be entitled to one re-examination during the following academic year, but no student will be given a third examination except by express permission of the College Board.

Comprehensive examinations are not required at present in the departments of Biology, Chemistry, or German.

Honors

The colleges award "annual honors" to outstanding students in each of the four classes, and grants the bachelors degree with honor to students who maintain a praiseworthy level of scholarship throughout the college course. The degree is also granted with honors in a particular field of study to students who have qualified for this distinction under the rules of the colleges.

Additional recognition of outstanding scholarship has been the function of the Clark Scholarship Society since its founding in 1914. Scholarly attainment in the area of the "liberal studies" is the major concern of the Clark chapter of the Society of Phi Beta Kappa, established during the current academic year.

ANNUAL HONORS

First honors and *second honors* are awarded at the end of each year to members of the freshman, sophomore, junior and senior classes who have, in the judgment of the College Board, distinguished themselves by their scholarship during the year.

COURSE HONORS

The bachelor's degree is awarded *with honor, with high honor,* and *with highest honor* to members of each graduating class whose records, in the judgment of the College Board, warrant this distinction.

DEPARTMENTAL HONORS

A program leading to the degree of Bachelor of Arts *with honors in a particular subject,* may be undertaken by a student at the beginning of the junior year if his cumulative scholarship average places him among the highest third of his class. Under this plan a student in cooperation with his honors' adviser organizes the work of his junior and senior years into a unified program which may include a maximum of two "honors courses." In these he works with a considerable measure of independence under the supervision of the adviser. In the senior year each candidate must pass satisfactorily a comprehensive examination given by his major department.

Application for honors work should be made, in writing, to the major department not later than the first day of May of the sophomore year.

Admission to candidacy for departmental honors does not relieve a student from any of the standing regulations of the college except as specifically stated above. If a student's candidacy for honors is terminated for any reason, the amount of credit, if any, to be allowed for special honors courses will be determined by the College Board in consultation with the major department.

An honors student must withdraw from his candidacy at the end of any semester in which he has not maintained a standing for the semester in the upper half of his class.

THE CLARK SCHOLARSHIP SOCIETY

The Clark Scholarship Society was organized in 1914. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the society." Membership in the society is open to members of the faculty. Student members are elected at the end of the junior year from students with highest standing in the junior class. Nominations are made by the College Board and the undergraduate members of the society elect from the students so nominated. Additional nominations may be made at the middle and end of the senior year.

PHI BETA KAPPA

The Society of Phi Beta Kappa, founded at the College of William and Mary in 1776, is dedicated to the recognition and encouragement of outstanding scholarly achievement in liberal studies—those studies concerned principally with a knowledge, understanding, or appreciation of the natural and social world in which we live. The Society establishes chapters in colleges and universities throughout the United States where the curricula are broadly cultural in scope and where high standards of scholarship are maintained.

In harmony with the underlying purposes of the Society, the Clark chapter, Lambda of Massachusetts, established in 1953, seeks to foster among undergraduates an appreciation of the contributions to culture and civilization which have been made by liberal studies.

Each year the Chapter elects to membership a limited number of juniors and seniors whose programs have been definitely liberal in character and who have achieved distinction in scholarship.

General College Regulations

ATTENDANCE

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

Attendance at a weekly college assembly is required, except in the case of part time students.

Regulations applying to absences from scheduled class meetings and laboratory exercises are based upon the conviction that such absences, regardless of their cause, involve a loss to the student and a drag upon the class. Students are, accordingly, expected to be consistently regular in attendance. Subject to this general provision, students are given a considerable degree of freedom in the control of their attendance. It is expected that such freedom will not be abused, and that it will contribute to the growth of each student's sense of responsibility.

Special regulations apply to attendance at the weekly assembly and physical training.

Regular physical exercise is required of all students, with the exception of veterans, for the general promotion of their health and mental efficiency. Physical training is scheduled at times which avoid conflict with recitation hours. Students are usually excused from this requirement only on the recommendation of the medical director.

DINING HALL

Undergraduates who do not live in their own homes are required to board at the dining hall. This fact must be recognized and subscribed to by all who seek admission to either the Men's College or the Women's College.

Board at the Dining Hall is $190 per semester, payable as a whole in advance, or partly in advance with the balance in installments according to a fixed schedule.

DORMITORIES

Freshman men not living in their own homes or with near relatives are required to room in Estabrook Hall.

Women students who do not live in their own homes or with near relatives are required to room in one of the Women's Dormitories.

For further details see the announcements of the Men's College and the Women's College.

INFIRMARY

The Infirmary, located at 6 Downing Street, opposite the University Library, is open during the academic year. A nurse is in attendance and the University physicians are on call. Facilities are provided for the treatment of emergencies and for minor medical services to all students while they are on the campus; in addition there is provision for the temporary hospitalization of resident students in cases of more serious illness.

Health services and infirmary fee. For the use of the Infirmary as outlined above and for annual physical examinations supplemented by other auxiliary health services a fee is collected with the tuition in the case of all undergraduates, according to the following schedule:

Students living at home	$4 per semester	$8 per year
Resident students	$7.50 per semester	$15 per year

Fees and Expenses

The principal University charges which affect an undergraduate student are listed below. Small additional fees are collected in certain departments. For these the departmental announcements should be consulted.

The following regulation was adopted by the trustees on March 28, 1931:

"No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun."

Matriculation fee	$5.00

Paid by every student who is admitted to the University.

Induction fee $10.00

Paid by all freshman men who enter the College in September and by all women students who enter the college for the first time in September.

Tuition $500.00 per year

For other than normal programs (four or five courses concurrently) the charge for tuition is at the rate of $50.00 per semester for each course.

One-half of the tuition is due at the beginning of each semester.

Activities fee $25.00 per year

Paid by all college students who are enrolled for regular programs or for six-course programs and by special students who are enrolled for programs of five or six courses.

One-half of the activities fee is due at the beginning of each semester

Laboratory fees

For each undergraduate laboratory course in biology, geology, physics, psychology and Chemistry 11. $5.00 per semester

For each undergraduate course in chemistry, excepting Chemistry 11. $12.00 per semester

Laboratory fees are due at the beginning of each semester.

Breakage and supplies deposits

For each undergraduate course in chemistry, excepting Chemistry 15. $10.00

For Chemistry 15. $20.00

Deposits are due when registration for the courses is completed.

The Bursar returns any unused balance or collects for breakage in excess of the deposit at the end of the course.

Diploma fee $5.00

Due at the beginning of the semester in which a student expects to complete his study in residence for the degree.

Dormitory charges

Room rent, for each occupant From $130 to $200 per year

Room rent is payable either in advance or in installments, one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May.

Room deposit	$25.00 for each occupant

Due before a room is occupied.

Dining Hall charges	$190.00 per semester

Payable in advance, or in installments of $47.50 on the first day of October, November, December, January, February, March, April and May.

Paid by all undergraduates who do not live in their own homes.

Health Services and Infirmary fee

For students living at home	$4.00 per semester
For resident students	$7.50 per semester

Due at the beginning of each semester.

Fee for late payment of tuition	$2.00

Paid by a student whose enrollment has lapsed because of failure to pay tuition, if re-enrollment is permitted.

Fee for late registration	$1.00 per day, to a maximum of $5.00

Paid by students who fail to complete registration within the official Registration Period.

COLLEGE EXPENSES—SUMMARY

A student in the colleges who lives in a dormitory and boards at the dining hall will find that the necessary cost for a college year (September to June) is about $1,100 in addition to personal expenses.

This expense is distributed as follows:

Annual fees	
Tuition	$500.00
Room rent	130.00 to 200.00
Board	380.00
Activities fee	25.00
Laboratory fees (estimated)	10.00 to 50.00
Health services and infirmary fee	15.00
Books and supplies (estimated)	50.00
Total	$1,110.00 to $1,220.00

Non-recurring fees, collected in the first year only

Matriculation fee	$5.00
Induction period fee	10.00

Student Activities

Student life at Clark is, as would be expected at a small institution, friendly and informal. Fixed rules and regulations are few, the assumption being that students will conform to the recognized standards of morality, good order, and consideration for others. College activities are under the minimum degree of faculty oversight which is necessary to insure responsibility in business dealings and consideration of the welfare of the individual student and of the college community.

The Activities Fee. Athletics and several non-athletic activities are partially supported by an activities fee. This fee admits a student, without additional charge, to all athletic contests held on the college grounds, provides him with the college newspaper, and admits him to plays and concerts presented by the dramatic and musical clubs.

Activities. The programs in athletics are described in the special announcements of the Men's College and of the Women's College.

Opportunities for recreation are found in dramatic clubs and musical clubs, under expert direction; in editing and publishing the college newspaper (*The Scarlet*), the literary magazine (*The Helicon*), and the senior yearbook (*The Pasticcio*); also in such organizations as the Debating Club and International Relations Club.

Formal "proms", informal "Bohemes" and fraternity activities furnish further opportunities for social life. One of the University buildings houses the Student Union. For many students, the most prized opportunity for social contacts is in the offices and laboratories, where members of the faculty may be visited with ease and freedom.

Eligibility for Non-competitive Activities. All students may participate so long as their scholarship proves satisfactory. Details are published in the Students' Handbook.

Scholarships and Loans

Undergraduate scholarships are provided by the University from endowed funds and from other sources. A limited amount of part-time employment is provided by the Library, the Dining Hall and various University offices. Educational loans are available from funds which have been established for this purpose.

Many scholarships and other forms of pecuniary aid for college students are provided in Worcester and elsewhere throughout the United States by local sources. Any interested person should address inquiries to school officials, churches, fraternal organizations, chambers of commerce, etc.

Scholarships

Undergraduate scholarships are generally awarded on the basis of pecuniary need with due regard to character and ability. The scholarships vary in amount and are in some cases restricted to residents of a definite locality or to those studying particular subjects.

To be eligible for a scholarship, an entering freshman must have a scholastic record which places him in the upper third of his preparatory school class. A college student is eligible if he has secured a rank in the upper half of his class for the preceding semester.

Scholarships are awarded at the beginning of each semester. Ordinarily an award for the first semester is continued through the second semester if the holder maintains a position in the upper half of his class for the first semester.

Applications for undergraduate scholarships should be filed at an early date on forms which may be secured from the college office.

Aid given in the form of scholarships is not regarded as a loan. It is recognized, however, that those who receive such aid may wish to return the amount in later years. Any sums received from this source will be added to the Alumni Loan Fund of the College or to any designated scholarship fund.

The following scholarships are currently available to students in the undergraduate colleges with the restrictions noted.

The Ellis-Hubley Competitive Scholarships. These are competitive scholarships restricted to male residents of Worcester who have graduated from Worcester secondary schools. The stipends, $600 annually to each beneficiary, are provided by money set aside from the income of funds bequeathed in memory of Gordon A. Hubley, Clark 1910, and of Theodore T. and Mary G. Ellis. One appointment is made each year to a member of the freshman class and the award is normally continued throughout the four years of the college course. A candidate must be recommended to the Committee on Scholarships by the Principal or Headmaster of the school in which his preparation for college is completed.

The Jonas G. Clark Scholarships. These scholarships have been established by the trustees to provide either full tuition or half tuition for undergraduate male and female students from outside of Worcester.

The Theodore T. and Mary G. Ellis Scholarships. These scholarships provide either full tuition or half tuition for male or female residents of Worcester who are students in "the collegiate department of Clark University."

The Sanford Memorial Scholarship. The Sanford Memorial Fund was established by alumni of the university in honor of Edmund C. Sanford, president of Clark College from 1909 to 1920. The Fund provides an annual scholarship amounting at present to approximately $200 for a male senior undergraduate.

The Livermore and Ambulance Scholarship. The endowment for this scholarship was provided by citizens of Worcester in honor of Charles Randall Livermore, the first Clark man to fall in battle in the first World War, and of his companions in the Clark Unit of Ambulance Drivers. Fifty dollars or more is awarded annually on the basis of academic success, character, and usefulness to the college. This scholarship is for male undergraduate students who are residents of Worcester County.

The Henry A. Willis Scholarships. Male students from Fitchburg, Massachusetts, and vicinity have first consideration in the award of these scholarships. In the absence of suitable candidates from this community grants may be made to others.

MANICURE AIDS

ROBERT EITNER
Quellen-Lexikon

The Helen Brewster Randolph Memorial Scholarship. A fund, established by the late Professor Charles B. Randolph in memory of his mother, provides about $250 annually for scholarships restricted to male college students, preferably those whose major is a foreign language.

The Gordon A. Hubley Scholarships. These scholarships are provided by a fund which was bequeathed by Alice B. Hubley in memory of her son, a graduate of the college in the class of 1910. The income is for the assistance of male undergraduates who are residents of Worcester.

The Alice Friend Newton Memorial Scholarship. This scholarship provides full tuition for a student in the Women's College whose major is psychology.

The William Richardson Scholarship. This scholarship was established by a bequest of Carlton E. Richardson of the college class of 1908 as a memorial to his father. The income of a fund of $7,500 is available "preferably for the education - - - - of boys of the Protestant faith."

The Jennie L. Richardson Scholarship. This scholarship was established by a bequest of Carlton E. Richardson of the college class of 1908 as a memorial to his mother. The income of a fund of $7,500 is available "preferably for the education - - - - of girls of the Protestant faith."

The Ernest R. Whitman Memorial Alumni Scholarship. The fund, established by the Alumni Association in honor of the Director of Physical Education for Men at Clark College from 1904 until his death in 1948, provides financial aid to men or women students possessing high qualities of leadership.

The B'nai Brith Scholarship. The Worcester Chapter, Order of B'nai Brith provides a scholarship which is primarily but not exclusively for the aid of Jewish students.

The Probus Club Scholarship. The Probus Club of Worcester offers an annual scholarship of one hundred dollars.

The Clark University Faculty Women's Club Scholarships. These scholarships are available to undergraduate students, either men or women, who rank high in intellectual and personal qualities.

The Clark University Alumnae Association Scholarships. Two scholarships are customarily offered by the Alumnae Association to students in the Women's College.

The National Council of Jewish Women Scholarship. The Worcester Section, National Council of Jewish Women, awards a $200 scholarship each year to a Jewish girl from Worcester or Worcester county who is attending Clark University.

The Soroptimists Club Scholarship. The Soroptimists Club of Worcester provides an annual scholarship for a student in the Women's College.

The Pleiades Scholarship. The women's senior honor society, Pleiades, raises, each year, a considerable sum of money which it applies to scholarships for students in the Women's College.

Educational Loans

Loans are covered by endorsed notes payable at a fixed date and bear interest at the rate of 4 per cent per year. Interest received from loans is in all cases added to the fund from which the loan was made.

Loans from the funds described below are made to undergraduates by the Dean of the college in coöperation with the Alumni Committee on Loans.

THE ALUMNI LOAN FUND is a permanent revolving fund established by the trustees and the alumni. To this has been added a fund of about $500 contributed by L. Kelly Foster, C. B. L. Kelley, Isador Lubin, H. M. Smith, and others.

THE ESTABROOK LOAN FUND was created by the generosity of the late Arthur F. Estabrook of the Board of Trustees.

THE HASKELL TALAMO LOAN FUND has been established by relatives and friends of the late Doctor Haskell Talamo, A.B., Clark University, 1916.

THE LOUIS N. WILSON FUND, established by the first librarian of Clark University, is a loan fund for male students in the college.

The Men's College

Clark College

The Collegiate Department of Clark University, popularly known as Clark College, was established in 1902. Originally attendance was restricted to men and a three-year program led to the degree of Bachelor of Arts. In 1922 the normal period of residence for the bachelors degree was extended to four years, in 1941 a second program leading to the degree of Bachelor of Business Administration was introduced and in 1942 women were admitted to college classes.

The etablishment of the financially independent Women's College made possible an enrichment of the undergraduate curriculum through an agreement under which men and women attend the same classes and the two colleges share the costs of administration and instruction.

FRESHMAN INDUCTION PERIOD

The freshman class of the Men's College assembles a few days before the beginning of the academic year in September for an "induction period." During this period the members of the class become acquainted and meet a selected group of upper class students as well as members of the college staff. Formal activities include tests which assist in placing a student in the proper class sections, individual and group conferences and registration for a program of studies.

It has been customary to spend the induction period at some well equipped camp where there are ample facilities for recreation.

A fee of $10 is charged for the induction period.

THE MEN'S DORMITORY — ESTABROOK HALL

Freshman men who do not live in their own homes are required to room in the freshman dormitory, Estabrook Hall.

Occasionally there may be accommodations in the dormitory which are not required for freshmen. In such cases these accommodations may be rented by upper class men.

The charges for accommodations in Estabrook Hall range from $130 to $200 per year.

Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May.

Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of $25. Students who indicate a desire for a room together will be accommodated whenever possible.

This deposit is returned, less a charge for lights and for any damages to the room or its furnishings, after the key to the room is surrendered to the Bursar.

THE MEN'S SENIOR HONOR SOCIETY, GRYPHON

The men's senior honor society, Gryphon, selects each year from the junior class a group of outstanding men who constitute the membership of the society for the following year. The society plays an important part in campus life and in maintaining the traditions of the college. Among its regular functions are the supervision of the annual "rope pull" between the freshman and the sophomore classes and the management of "Spring Spree."

ATHLETICS

Students in the Men's College have the opportunity to participate in intercollegiate soccer, baseball, tennis, basketball, fencing and crew. A competent coach has immediate supervision over the athletic teams. In addition to the program in intercollegiate athletics there is an extensive program of intra-mural sports.

Eligibility for Competitive Activities. Participation in organized extracurricular competitive activities is denied only when a student's scholastic record indicates that continuance in an activity might be responsible for scholastic failure.

Any student carrying less than a full program of studies is ineligible unless his reduced program permits graduation at the end of the year in which that program is carried.

Students admitted with advanced standing from another college are ineligible during the first half-semester of residence at Clark College.

A special student is normally not entitled to participate in competitive activities of the college. The College Board may, however, permit such participation in the case of a special student who is enrolled for a program of five courses.

General supervision of the athletics program is vested in the Committee on Athletics, consisting of the Director of Physical Education, the faculty Committee on Athletics, and the Athletic Council.

The Women's College

The Women's College of Clark University was established in the fall of 1942. Its financial basis is entirely distinct from that of the Men's College although it shares, through a cooperative arrangement, the services of the same administrative and teaching staffs.

Women attend the same classes as men and are subject to the same requirements for admission and for graduation with the exception of required physical training and health education.

General supervision of women students rests with the Associate Dean for Women, Miss M. Hazel Hughes.

The Advisory Board for the Women's College assists the administration in respect to general policy and social affairs.

Advisory Board for the Women's College

Mrs. Bancroft C. Wheeler, *Chairman*
Mrs. James B. Lowell, *Secretary*
Mrs. Ralph E. Duffy
Mrs. Frank L. Harrington
Mrs. J. Herbert Johnson
Mrs. Daniel W. Lincoln

Mrs. John S. Tomajan, *Vice-chairman*
Mrs. Saul A. Seder
Mrs. Paul W. Spaulding
Mrs. Charles T. Tatman
Mrs. Richard K. Wellington
Mrs. Warren A. Whitney

Mrs. Howard B. Jefferson, *honorary member*

Representing the Alumnae

Mrs. Paul J. Connolly, *Chairman*
Miss Kathryn A. Jerome

Miss Joan M. Flaherty, *ex off.*
Mrs. James J. Redican

Representing the Faculty Women's Club

Mrs. Charles T. Bumer, *Chairman*
Mrs. Raymond E. Murphy

Mrs. F. Eugene Melder, *ex officio*
Mrs. Heinz Werner

The center for women's activities on the campus is the Women's Lounge, located on the main floor of Jonas G. Clark Hall. Attractively decorated and comfortably furnished, the lounge provides a meeting place for formal or informal groups and in general serves the comfort and convenience of women students.

The Women's Gymnasium with its connected dressing rooms and shower rooms occupies the western end of the ground floor of Jonas G. Clark Hall. Here are located also a second lounging room and a lunch room.

INDUCTION PERIOD

The freshman class of the Women's College and all women transfer students assemble at the college on Wednesday before the opening of the academic year in September for an "induction period." During this period the new students become acquainted and meet a selected group of upper class students as well as members of the college staff. Formal activities include certain tests which assist in placing students in the proper class sections, individual and group conferences and registration for a program of studies.

It has been customary to spend the induction period at some attractive and well-equipped girls camp where there are ample facilities for recreation.

A fee of $10 is charged for the induction period.

DORMITORIES

Undergraduate women who do not live at home are expected to live in one of the women's dormitories. If other arrangements are desired, written request from a parent or guardian must be sent to the Dean's office and the Dean's approval must be obtained.

There are three dormitories, each housing from fifteen to twenty students. Each has its own house mother and a dormitory committee which meets with the house mother to consider matters pertaining to dormitory living such as house meetings, the social life of the dormitory, the observance of dormitory regulations, etc. These groups also act as advisory boards for the students with whom they are associated.

A Dormitory Council composed of representatives from the three houses, the three house mothers and the Associate Dean for Women meets once a month to discuss matters of interest to the dormitory residents. This board often appoints student committees to make surveys in particular areas of student life.

The charges for accommodations in the Women's Dormitories range from $130 to $200 per year.

Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May.

Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of $25.

This deposit is returned, less a charge for lights and for any damages to the room or its furnishings, after the key to the room is surrendered to the Bursar.

Students who indicate a desire for a room together will be accommodated whenever possible.

THE WOMEN'S SENIOR HONOR SOCIETY, PLEIADES

The women's senior honor society, Pleiades, selects each year from the junior class a group of outstanding women who constitute the membership of the society for the following year. The society plays an important part in campus life and in maintaining the traditions of the college. In recent years it has provided funds for scholarship aid to one or more women students.

PHYSICAL EDUCATION AND ATHLETICS

There is a physical education program for women which is designed to improve posture and general health. Every student is given a physical examination at the beginning of each year.

Attendance at classes in physical education is required twice a week for the first two years. Participation in one group sport and in one individual sport is required during the junior year. Swimming and life saving courses are available through the entire year by arrangements with the Young Women's Christian Association. These courses are conducted by a member of the physical education staff of the University.

Several types of athletics are open to women. In the fall and spring hockey, crew, archery, tennis, and golf are conducted outdoors. Tournaments are held in the spring and fall and a cup is awarded to the winner of each event. During the winter months basketball is the principal organized athletic activity; volleyball and badminton are also offered. Women students use their own gymnasium for practice, but have the use of the University Gymnasium for games with outside organizations.

The Division of Business Administration

The Division of Business Administration is an integral part of the undergraduate organization of Clark University and is responsible for the college program in business administration.

General supervision of the program rests with the Administrative Committee, representing the Faculty. Administrative responsibility rests with the Director, Professor Arthur F. Lucas. The Advisory Committee composed of business executives assists in the formulation of general policies.

ADVISORY COMMITTEE TO THE DIVISION OF BUSINESS ADMINISTRATION

W. ROBERT BALLARD, JR.
DONALD W. CAMPBELL,
  Treasurer, State Mutual Life Assurance Company
F. HAROLD DANIELS,
  President, Riley Stoker Corporation
C. LANE GOSS,
  President, Worcester County Institution for Savings
ALBERT PALMER,
  Vice-President, Crompton & Knowles Loom Works
HIRAM RASELY,
  Executive Vice-President, Burdett College
JACOB REED,
  Senior Partner, Reed & Company
WILLIAM SAWYER, III,
  President, W. H. Sawyer Lumber Company

The program in Business Administration is given coöperatively by the Departments of Economics and Sociology, English, Geography, History and International Relations, Mathematics and Psychology.

THE BUSINESS ADMINISTRATION PROGRAM

The program leading to the degree of Bachelor of Business Administration is designed to prepare young men and women for careers in business.

Students who enroll in this program are members of either the Men's College or of the Women's College and are subject to the general college regulations as well as to the special requirements for the degree of Bachelor of Business Administration. They may choose their electives in other fields such as social studies, language, fine arts and science.

The business program is designed to provide an opportunity for the student to become acquainted with the basic characteristics of modern industry and commerce, to acquire an understanding of the general principles of business and to receive training in the techniques common to all successful business enterprises. It should assist the student in adapting himself to general business requirements and in relating his specific job to the entirety of business and industrial enterprise as well as in perfecting his skill in particular techniques.

The program consists of carefully selected courses in arts and sciences together with specialized courses of particular interest to students of business. Among the former are basic courses in English composition, mathematics, economics, psychology, and government. Among the latter are courses in accounting, finance, managerial techniques, statistical methods, merchandising, and business law. Training in the analysis of administrative problems is emphasized throughout the program.

A uniform program including English, elements of production and distribution, accounting and business mathematics is normally required of all business administration students in the freshman year.

The following courses are required of all candidates for the degree of Bachelor of Business Administration and must be included in the programs covering the sophomore, junior and senior years:

B. A. 16	Business Statistics
B. A. 17a	Public Speaking
B. A. 18	Business Organization and Finance
B. A. 20	Business Law
B. A. 220	Analysis of Business Problems
Economics 11	Principles of Economics
Economics 13	Money and Banking*
Government 15	Introduction to Government

At the end of the sophomore year, each candidate for the degree of Bachelor of Business Administration must submit to his faculty adviser an integrated program of studies covering the junior and senior years. This program should indicate the student's areas of special interest and the specific courses he intends to elect. Ordinarily no program will be approved that does not include in addition to the required courses named above, at least five courses in Business Administration or closely related subjects.

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*Under special conditions Economics 13 may be replaced by certain other courses in economics.

Comprehensive examinations. A comprehensive examination is required of every candidate for the degree of Bachelor of Business Administration in the spring of the senior year. The successful completion of this examination demands an ability to integrate the principles covered by specialized courses in business administration and economics and a competence in at least one functional field of business administration. Candidates for the bachelor's degree are required to register for Business Administration 220 in the senior year. This course is designed in part to assist students in preparing themselves for the comprehensive examination.

In addition to the program leading to the degree of Bachelor of Business Administration, the colleges offer a less intensive program in Business Administration leading to the degree of Bachelor of Arts. Students taking this program choose Economics and Sociology as their major department. They must meet all the requirements for the degree of Bachelor of Arts including those in English, fine arts, foreign languages and sciences. First year students should take the normal college program for freshmen and should elect Business Administration 10 for the Group B requirement. The program for the second year should include Business Administration 117 and Economics 11. In the third and fourth years students should elect at least two basic courses in economics, such as Economics 13, 21, 22, 205, or 207, and at least four courses in business administration. The following are recommended: Business Administration 16, 18, 127, 20 and 220.

COURSES IN BUSINESS ADMINISTRATION

Courses in Business Administration are listed with descriptions under "Business Administration" in the alphabetical list of "Departments and Courses."

The following courses may not be counted for credit toward the degree of Bachelor of Arts: Business Administration 13, 14b, 17, 109, 125, 128, 129a, 181a, 182b, 23, 227, 237.

Departments and Courses

Interdepartmental Majors
General Education
Biology
Business Administration
Chemistry
Classics
Economics and Sociology
Education
English
Fine Arts
French
Geography
Geology
German
History and International Relations
Mathematics
Music
Philosophy
Physics
Psychology
Spanish

Departments and Courses

Departments, important subdivisions of departments and certain interdepartmental groups of courses are listed in the following pages. In general, each entry includes a departmental announcement followed by a list of courses which are offered by the department.

Interdepartmental majors and *General Education* are listed first.

Departments and their subdivisions follow the first two entries in alphabetical order.

Departmental announcements contain important general information, as well as regulations concerning graduate work in the department and statements of the requirements for undergraduate majors.

Courses are, in general, arranged in sequence under each heading so as to progress from the more elementary to the more advanced. Each course is described as it has been given during the current academic year unless an accompanying note states otherwise. Notice is given in all cases where a department plans to alter the content or to omit a course. If a course is not currently given but will be offered at a later date this fact is stated.

The unit of instruction for undergraduates is a "course." A course normally meets for classroom or laboratory exercises three or four times weekly throughout the regular academic year (September to June) and constitutes one-fifth of the normal program for an undergraduate.

Each unit of undergraduate instruction as listed below yields credit for one half-course in each semester unless its value as a fractional course or a multiple course is indicated.

Advanced courses, not primarily for undergraduates, are announced with a statement of the number of weekly meetings.

Half-course credit is given for the satisfactory completion of the work of one semester in any course unless the course is designated as indivisible. Courses primarily for graduate students yield full half-course credit in each semester without regard to the number of class meetings.

With the consent of the instructor, a course may be entered at the beginning of either semester.

Courses are classified under three headings as follows:

1. PRIMARILY FOR UNDERGRADUATES, designated by numbers beginning with the figure "1."

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS, designated by numbers beginning with the figure "2."

3. PRIMARILY FOR GRADUATE STUDENTS, designated by numbers beginning with the figure "3."

Interdepartmental Majors

To provide undergraduate "majors" in certain fields which are intrinsically worthwhile culturally or professionally but which cross departmental boundaries, the Faculty has authorized a group of "interdepartmental majors". These permit a greater breadth of choice than the strictly departmental programs but preserve the unity of content and purpose which is inherent in the concept of a major.

An interdepartmental major includes eight or more required courses.

At present three programs are offered under this plan. These are listed below.

I. INTERNATIONAL RELATIONS

Freshman and Sophomore Years

General Educ. 14	Europe and the United States since 1500
Economics 11	Principles of Economics
Geography 10	Principles of Geography

Junior and Senior Years

Government 24	International Relations
Government 240	Seminar in International Relations
Government 241	International Law and Organization
Geography 201	Political Geography
Either	
Economics 19b	Economics of National Security
or	
Economics 211b	Comparative Economic Systems
Economics 205a	Intermediate Economic Theory
Economics 207	International Economics

In case of necessity, other courses in Economics may be substituted with the consent of the instructor in charge of the program.

Instructor in charge: Associate Professor Hayden.

II. ENGLISH HISTORY AND LITERATURE

Freshman Year

General Educ. 14	Europe and the United States since 1500

Sophomore Year

History 12	History of England
English 15	Survey of English Literature

Junior and Senior Years

Philosophy 12	History of Philosophy

Eight half-courses chosen from the following:

History 22a	Tudor and Stuart England
History 221	England since 1760
English 101b	Chaucer

Either English 113, Shakespeare and the Elizabethan Drama or English 147b, Oral Interpretation of Shakespeare

English 104	Seventeenth Century, with Special Emphasis on Milton
English 105	Eighteenth Century
English 110b	Victorian Poetry
English 117b	English Romantic Poetry
English 122b	Modern Poetry
English 126a	Modern British and American Drama
English 142a	The English Novel

Instructor in charge: Associate Professor Anderson.

III. AMERICAN CIVILIZATION

Freshman Year

General Educ. 14	Europe and the United States since 1500

Sophomore Year

History 131	Introduction to United States History

At least two of the following courses:

Government 15	Introduction to Government
Economics 11	Principles of Economics
Sociology 11	Principles of Sociology

Junior and Senior Years

History 230	Social and Intellectual History of the United States
English 111	A Survey of American Literature

Two and one-half courses chosen from the following list:

Sociology 12a	Cultural Anthropology
Philosophy 12	History of Philosophy
History 232	United States Constitutional History and Law
History 234a	American Diplomatic History
History 235b	The United States in the Twentieth Century
Government 251a	American Political Parties
Sociology 22b	Race and Nationality
Sociology 25	Social Institutions
Economics 231	Economic History of the United States

Alternative courses may be chosen with the approval of the instructor in charge of the program.

Instructor in charge: Associate Professor Campbell.

General Education

Courses in General Education are distinguished from courses which are listed in departmental announcements by viewpoint and tone rather than by content. They aim to develop an understanding of the basic unity of knowledge and thought; to offer the student an opportunity to obtain a core of information and of ideas which will be possessed in common with many of his contemporaries and to stimulate intelligent and critical interest in fields of culture where he has no expectation of attaining professional competence. General Education courses are thus a valuable supplement to pre-professional or pre-vocational education. They may be advantageously used to fulfil the distribution requirements in the natural sciences, the social sciences and language and literature.

They are outside the sequence of courses in a student's "major" or "field of special interest" and are essentially without specific prerequisites.

The following courses are classified for administrative purposes in Group A or Group B or Group C. They may be used to meet college requirements wherever a particular Group is specified in the "Freshman Programs" or in the "Requirements for a Bachelor's Degree".

The offerings in General Education are under the supervision of a committee which reports to the Academic Council. The present committee consists of Mr. Jordan, chairman, Mr. Bumer, Mr. Cohen, Mr. Nunnemacher and Mr. Reid.

Courses in General Education

General Education 10. An Introduction to Physical Science. This course covers fundamental and outstanding developments of both classical and modern physics and includes selected topics from chemistry and astronomy. The methods and procedures of science as exemplified by physics are emphasized, and considerable attention is given to historical background and the effect of science on man's thought and life. The laboratory periods are devoted to demonstration, discussion, criticism, and evaluation and to a series of selected experiments which are carried out by the students. No attempt is made to develop special competence in laboratory techniques.

Open to freshmen. Primarily for non-science majors. Classified as a Group A course.

Through the year. M. W. F., 10; Tu., 2. MR. ROOPE

General Education 14. Europe and the United States Since 1500. A survey of political, economic and intellectual trends since the Renaissance, designed to promote an understanding of the origin and development of the problems of the modern world.

The first semester treats the sixteenth, seventeenth and eighteenth centuries; the second semester, the nineteenth and twentieth centuries.

A class fee of one dollar for each member of the class is charged for supplies and duplicate library copies of books.

Open to freshmen. Classified as a Group B course.

Through the year. Tu. Th. S., 9.

MR. JORDAN, MR. CAMPBELL and MR. OSGOOD
Assisted by MR. DUFFY

General Education 17. Great English and American Writers. Unlike English 15, which tries to present a comprehensive view of the whole field of English literature from *Beowulf* to the present, this course focuses the attention on six or seven major writers in each semester. The emphasis is placed, not on tracing literary movements or on studying literary problems *per se,* but on showing what these great figures have to say that is of interest or importance to the general reader today. The course seeks to determine the attitude toward life of each author, to see what gave rise to that attitude, and to evaluate it and compare it with the views of other writers treated in the course. Chronology as well as other purely factual material is kept to a minimum.

Meets requirement for a third semester of English in addition to English 11. Open to sophomores, juniors and seniors. *May not be counted for credit with English 15.*

Divisible course. Either semester may be elected separately. Classified as a Group C course.

Through the year. Tu. Th. S., 10. Mr. Carter, first semester
Mr. Anderson, second semester

General Education 18. Literature and the Nature of Man. This course is designed to serve the general student by providing him with an opportunity to investigate ideas held by outstanding literary artists of the Western World concerning the nature of man and his relation to the universe. The works are also to be studied as representative of the cultures of which they are products.

The course is planned not only to introduce the student to a body of knowledge and experience held in common by educated men and women in our society, but also to help him to clarify his thinking concerning certain basic problems and to develop attitudes that are both humane and creative.

The subject matter undertaken includes Sophocle's *Antigone,* the *Book of Job,* the *Inferno* from Dante's *Divine Comedy,* Shakespeare's *Hamlet,* Milton's *Paradise Lost,* Molière's *Misanthrope,* Goethe's *Faust, Part I,* and selected poems of T. S. Eliot. All non-English works are read in translation.

Meets the requirement for a third semester of English in addition to English 11, but not the requirement in Fine Arts. Classified as a Group C course.

Open to sophomores, juniors, and seniors with the consent of the instructors.

Divisible course. Either semester may be elected separately.

Through the year. M. W. F., 12. Mr. Anderson, first semester
Mr. King, second semester

General Education 110. Fundamental Concepts of Elementary Mathematics. The subject matter of this course is exposed in terms comprehensible to students with no formal training in mathematics at the college level. It is hoped that the course will show the student how the abstract and general ideas of mathematics have implications for other fields of learning.

Open to juniors and seniors only. Classified as a Group A course.

Through the year. M. W. F., 12. MR. BUMER

American Civilization

AN INTERDEPARTMENTAL MAJOR

An "interdepartmental major" in the field of American Civilization is offered to candidates for the degree of Bachelor of Arts. The program required for the completion of this major is fully outlined under the earlier heading *Interdepartmental Majors.*

Department of Biology

PROFESSOR POTTER, ASSOCIATE PROFESSOR NUNNEMACHER
ASSISTANT PROFESSOR BLAIR

The biological laboratories are well equipped for the courses offered and contain special equipment for advanced investigations. Funds are available annually for the purchase and building of apparatus which may be required. The university library contains complete files of the more important periodicals and reference works. The department maintains an herbarium of over 50,000 sheets. Certain assistantships, fellowships and scholarships are available from time to time.

UNDERGRADUATE WORK

Biology 11 presents a comprehensive view which is prerequisite to all other courses in the department, except Biology 19a.

An undergraduate majoring in biology must complete Biology 11 and three advanced courses in biology, Chemistry 11, Physics 11, Mathematics 11, and at least one additional course in chemistry, physics or geology. Mathematics 11 does not count towards the fulfillment of the major requirements.

A candidate for honors in biology must take Biology 11, 12, 14 and 240.

THE PRE-MEDICAL PROGRAM

Clark University is justly proud of its pre-medical training program. Not only do our better students have little difficulty in entering the best medical schools, but they usually rank in the upper half of their medical school classes and become respected and outstanding physicians.

The student entering upon the pre-medical program must be prepared to compete with other college students of above-average ability; he must be of good health and capable of sustained hard work; he must like and get along well with all kinds of people and he must have a real desire to help the sick and advance the science of medicine. The pre-medical student must be prepared to undertake a program of intensive study which usually takes eight years before the medical degree can be obtained. During this time the large amount of class and laboratory work reduces considerably the opportunities for earning money through outside work.

While the requirements for the Bachelor of Arts degree assure each graduate familiarity with several fields of learning, the pre-medical student should take as many non-science courses as possible to round out his general education, because medical school programs leave no time for courses outside of their technical field. Courses in psychology and human relations will be of particular benefit.

The field of medicine is open equally to men and women.

The following programs are recommended for pre-medical students with a major in biology. Program A places the emphasis on biology; Program B places the emphasis on chemistry.

PROGRAM A

First year

- English
- Foreign Language
- Mathematics
- General Biology
- Group B (one course)

Second year

- Biology 12
- General Chemistry
- Foreign Language
- Group B (one course)
- ½ course in English and ½ course in Fine Arts

Third year

- Biology 220, 221, 18 (Any two)
- Chemistry 13
- Physics 11
- Two electives

Fourth year

- Biology 240
- Chemistry 15
- Three electives

PROGRAM B

First year

- English
- Foreign Language
- Mathematics
- General Chemistry
- Group B (one course)

Second year

- Chemistry 13
- Chemistry 14a and 14b
- General Biology
- Foreign Language
- Mathematics 12

Third year

- Chemistry 15a and 15b
- Biology 12
- Physics 11
- Group B (one course)
- One elective

Fourth year

- Chemistry 19
- Biology (two advanced courses)
- ½ course in English and ½ course in Fine Arts
- One elective

GRADUATE WORK

Students whose records are approved by the department may be admitted by the Graduate Board for work leading to the degree of Master of Arts.

Courses in Biology

During the academic year 1952-53 the following courses were given: 11, 12, 13, 14, 18, 201, 204, 220, 221, 224, 241, 244, 260, 261, 300, 320, 340, 350 and 360.

1. PRIMARILY FOR UNDERGRADUATES

11. *General Biology.* An introduction to the fundamental principles and problems of biology.

Divisible course upon approval by the department.

Open to freshmen.

Through the year. M. W. F., 9; M., 2.

Mr. Potter and Mr. Nunnemacher

12. *Comparative Anatomy.* A study of the morphology of the vertebrates from a comparative standpoint which traces the evolution of animals from fish to mammals.

Lectures and laboratory work.

Through the year. W.F., 10; Tu.F., 2. MR. NUNNEMACHER

13. *Seminar in General Biology.* Credit is not given for this course. All students in the department are invited to attend and to participate. STAFF OF THE DEPARTMENT

14. *Botany.* First semester, morphology and taxonomy of the lower plants. Special emphasis is given to the algae and fungi.

Second semester, systematic botany of the higher plants with special emphasis on our local flora. A collection of one hundred plants is required, also a spring program of laboratory work in the field of at least three days' duration.

Either semester of the course may be elected separately.

Prerequisite: Biology 11, first semester.

Through the year. M. W.F., 1; Th., 2. MR. POTTER

15. *Invertebrate Zoology.*

Omitted 1952-53.

18a. *Genetics.* An introduction to the principles of genetics.

Half course. First semester. M. W.F., 11. MR. POTTER

19a. *Human Anatomy and Physiology.* An introductory semester course. Does not require Biology 11 as a prerequisite but requires Biology 11 to be counted towards the Group A requirement. May not be counted toward the fulfillment of the requirement for a major in Biology. Three lectures per week.

Omitted 1952-53. MR. NUNNEMACHER

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

201. *Advanced Systematic Botany.* Through the year. Three laboratory periods and one lecture per week. Either semester may be taken separately. MR. POTTER

202. *Economic Botany.* MR. POTTER

Omitted 1952-53.

204b. *Bacteriology.* An introduction to the study of bacteriology.

Half course. Second semester. M. W. F., 11. MR. POTTER

205. *Advanced Genetics.*
Three lectures per week.
Half course. Second semester. MR. POTTER
Omitted 1952-53.

219. *Entomology.* Fundamentals of insect life.
Three lectures and one laboratory period per week.
Half course. Second semester. MR. POTTER
Omitted 1952-53.

220a. *Histology.* A comprehensive course dealing with tissue structure. Emphasis is placed on the study of mammalian tissues. Two lectures and two laboratory periods per week.
Half course. MR. NUNNEMACHER

221b. *Embryology.* A consideration of the fundamentals of embryology. Two lectures and two laboratory periods per week.
Half course. MR. NUNNEMACHER

223b. *Parasitology.* An introduction to the parasitic mode of life of the protozoa, helminthes, and arthropoda and their relation to mankind. MR. POTTER AND MR. NUNNEMACHER
Half course. Second semester.
Omitted 1952-53.

224b. *Neuro-anatomy.*
Three lectures per week. MR. NUNNEMACHER

240. *General Physiology.* Open to students who satisfy the instructor as to their preparation. The principal types of functioning characteristic of living organisms are considered in the light of their physio-chemical determinants.
Through the year. Tu. Th., 11; and two laboratory periods per week. MR. BLAIR
Omitted 1952-53.

241b. *Endocrinology.* A study of the ductless glands and their relation to behavior.
Half course. Second semester. MR. BLAIR

242. *Advanced Physiology.* Given through the year. Three lectures per week first semester and three laboratory periods per week second semester.
Through the year. MR. BLAIR
Omitted 1952-53.

244. *Biochemistry.* MR. BLAIR
First semester. Three lectures per week.

260. *Special Problems.* Advanced semi-independent study of an approved topic under the direction of a member of the staff.
Hours and credit to be arranged. STAFF OF THE DEPARTMENT

261. *Microtechnique.* During the first semester emphasis is placed on the preparation of animal tissues for microscopic study. The second semester is concerned with the preparation of botanical sections.
Through the year. MR. NUNNEMACHER AND MR. POTTER

3. PRIMARILY FOR GRADUATE STUDENTS

300. *Readings and Research in Botany.*
Credit to be arranged. MR. POTTER

301b. *Plant Morphology.*
Credit to be arranged. MR. POTTER

320. *Readings and Research in Zoology.*
Credit to be arranged. MR. NUNNEMACHER

340. *Readings and Research in Physiology.*
Credit to be arranged. MR. BLAIR

342b. *Enzymology.*
Second semester. Two lecture and two laboratory periods per week. MR. BLAIR

350. *Advanced Studies in Biology.*
Tues. 4-6. STAFF OF THE DEPARTMENT

360. *Thesis.*
Credit to be arranged. STAFF OF THE DEPARTMENT

Business Administration

A description of the program in Business Administration and a statement of the requirements for the degree of Bachelor of Business Administration will be found under the general heading "The Undergraduate Colleges" and the special heading "The Division of Business Administration."

The courses in Business Administration and related subjects which are included in the program for the degree of Bachelor of Business Administration are listed alphabetically in the following pages under the headings: Accounting, Economics, English and Public Speaking, Geography, History and Government, Management, Marketing, Mathematics, Psychology, and Statistics.

Courses in Business Administration

Courses in *Business Administration* are classified as follows:

Course number	Classification
10a	Marketing
10b	Management
13	Math. and statistics
14	English and pub. speaking
16	Math. and statistics
17	English and pub. speaking
18	Management
109	Marketing
112	Management
117	Accounting
124	Marketing
125	"
127	Accounting
128	"
129	"
181	Management
182	"
183	"
23	Marketing
27	"
203	"
227	Accounting
237	"
220	Management

In 1952-53 the following courses were given: 10, 13, 14, 16, 17, 18, 109, 112, 117, 125, 127, 128, 129, 160, 181, 182, 183, 20, 203, 220, 237.

Students should note that the following courses may not be counted for credit toward the degree of Bachelor of Arts: Business Administration 13, 14b, 17, 109, 125, 128, 129a, 181a, 182b, 23, 227, 237.

ACCOUNTING

Business Administration 117. Principles of Accounting. The organization and use of financial records, with emphasis on their interpretation as well as on the techniques of procedure.

Indivisible course.

Required of freshmen in the Business Administration program.

Through the year. Tu. Th., 11; Tu. 2. MR. HARGEST
Assisted by MR. OSBORNE

Business Administration 127. Intermediate Accounting. A study of generally accepted accounting principles and procedures and their application to asset, liability and proprietorship accounts. The analysis of financial statements, including statements from incomplete data and the statement of application of funds. Emphasis is placed upon problem analysis and solution.

This course may be entered at beginning of the second semester, but credit will not be given until both semesters have been completed.

Indivisible course.

Through the year. Tu. Th. S., 10. MR. HARGEST

Business Administration 128a. Elementary Cost Accounting. A study of the basic principles of cost accounting and their application to the job order cost system. Especial consideration is given to the accounting for material, labor and manufacturing expenses and to the preparation of financial statements.

Half course. First semester. MR. HARGEST

Omitted 1952-53.

Business Administration 128b. Advanced Cost Accounting. A study of the principles and procedures used in process, estimated and standard cost accounting systems. Consideration is given to the accounting for by-products, joint products and methods of accounting for work in process inventories. The preparation of financial statements and cost reports for managerial control is emphasized.

Half course. Second semester. MR. HARGEST

Omitted 1952-53.

Business Administration 129a. Federal Tax Accounting. A basic course in the fundamentals of federal income and social security taxes with major emphasis upon the preparation of returns.

Half course. First semester. Tu. Th., 1:30-3:00. MR. HARGEST

Business Administration 227a. Auditing. After an analysis of the purpose and scope of the several classes of audits, the course deals with (1) professional ethics (2) auditing standards (3) internal control systems (4) audit procedures applicable to asset, liability and proprietorship accounts, and (5) the use of worksheets and the preparation of statements and reports.

Half course. First semester. Tu. Th. S., 11. MR. HARGEST
Offered in alternate years. Omitted 1952-53.

Business Administration 237a. Branches, Consolidations, Mergers and Bankruptcy Accounting. The principles and problems encountered in home office and branch accounting; parent and subsidiary accounting; major-minor and reciprocal holding company relationships; financial and operating statements of consolidated companies; accounting for "sick business"; equity receiverships, statement of affairs; bankruptcy; the statement of realization and liquidation.

Half course. First semester. Tu. Th. S., 8. MR. HARGEST

Business Administration 237b. Governmental, Institutional and Estate Accounting. The principles and problems encountered in accounting for the budget, revenues, appropriations and expenditures for the several funds used by governmental units and institutions. Accounts of the executor, administrator or trustee of an estate, and the related charge and discharge statements.

Half course. Second semester. Tu. Th. S., 8. MR. HARGEST

ECONOMICS

See also announcement of the Department of Economics and Sociology.

Economics 11. Principles of Economics. Required for the degree of Bachelor of Business Administration.

Economics 13. Money and Banking. Required for the degree of Bachelor of Business Administration.

Economics 15a. Public Finance.

Economics 19b. Economics of National Security.

Economics 21. Business Cycles.

Economics 22. Labor Economics and Labor Problems.

Economics 25b. Problems in Public Finance.

Economics 26. Government and Industry.

Economics 205a. Intermediate Economic Theory.

Economics 206b. Economics of Industry.

Economics 207. International Economics.

ENGLISH AND PUBLIC SPEAKING

English 11. Composition and Literature. The first semester is required of freshmen in the Business Administration program.

Business Administration 14b. Business English. A course in English composition designed to train the student in the preparation of reports, letters, etc., used in business.
Required of freshmen in the Business Administration program.
Half course. Second semester. M. W. F., 11. MR. CARTER

Business Administration 17a. Public Speaking. A course in the fundamentals of public speaking including the more common speech situations such as speech of introduction, address of welcome, expository and impromptu speeches; problems in human relations; voice tests, vocabulary drill.
Required for the degree of Bachelor of Business Administration.
Half course. First semester. M. W. F., 11. MR. ILLINGWORTH

Business Administration 17b. Public Speaking. Parliamentary procedure, open forum, panel discussion, committee meetings, reports, extemporaneous speaking.
Prerequisite: Business Administration 17a.
Half course. Second semester. M. W. F., 11. MR. ILLINGWORTH

GEOGRAPHY

See also announcement of the Department of Geography

Geography 10. Principles of Geography.

Geography 16. Economic Geography.

HISTORY AND GOVERNMENT

See also announcement of the Department of History and International Relations

Government 15. Introduction to Government.
Required for the degree of Bachelor of Business Administration.

General Education 14. Europe and the United States Since 1500.

MANAGEMENT

Business Administration 10b. Elements of Production. A survey of the production function in business, giving special emphasis to an exposition and theoretical evaluation of current practices in the fields of plant location, building and equipment selection, product and process development, maintenance, and methods of manufacture.

Required of freshmen in the Business Administration program.
Half course. Second semester. M. W. F., 9. MR. NORDSTROM

Business Administration 18a. Business Organization and Finance. A course in the financial structure of modern industry with emphasis on the nature of the business corporation, its financial practices, types of securities, capital structure, financial reorganization, and the problems of internal financial control.

Required for the degree of Bachelor of Business Administration.
First semester. M. W. F., 9. MR. LUCAS

Business Administration 112. Introduction to Personnel Management. A survey of the policies, practices and theory underlying the management of manpower in Industry. Representative topics studied are employee selection, training, promotion and transfer, wage payment and morale. Research into actual industrial situations is included in the second half.

Through the year. M. W. F., 10. MR. NORDSTROM

Business Administration 181a. Industrial Management. A study of the techniques of the executive control of manufacturing operations with special reference to such fields as specialization of labor, simplification and diversification of products, expansion, control of factors of production, and internal organization. The case method is used to a large degree.

Half course. First semester. M. W. F., 12. MR. NORDSTROM

Business Administration 182b. Techniques of Managerial Control. This course emphasizes those techniques by which information is communicated most efficiently in a business organization to achieve both high efficiency and high morale. This includes a survey of the contribution of office management to the efficient storing and communication of information.

Half course. Second semester. M. W. F., 12. MR. NORDSTROM

Business Administration 183. Industrial Relations. The subject matter of the course is management-employee relationships with special reference to union and management bargaining. Oppor-

B.A. 160b. Problems in Competition + Monopoly
Half course. Second semester. M.W.F., 9 Mr. Lucas

tunity for development of perspective and judgment as regards problems of management in shop industrial situations and under the law of labor relations is provided. Discussion and case methods are employed.

Through the year. Tu. Th. S., 11. MR. MELDER

Business Administration 20. Business Law. A study of the legal basis of business and the principles of statutory and common law as they affect business relationships; covering such subjects as contracts, property, sales, negotiable instruments and agency.

Indivisible course.

Required for the degree of Bachelor of Business Administration.

Through the year. M. W. F., 8. MR. BREEN

Business Administration 220. Analysis of Business Problems. A course in the analysis of specific problems of administration and policy making. The course is designed to integrate the principles covered in more specialized courses in Business Administration in order that the student may acquire an appreciation of the broad business picture, while developing his ability to view business and economic problems from an over-all standpoint.

Required of seniors in the Business Administration program.

Indivisible course.

Through the year. M. W., 2 - 3:30. MR. KELLEY

MARKETING

Business Administration 10a. Elements of Distribution. An introduction to the study of business activities involved in the flow of goods and services from producer to consumer. Required of freshmen in the business administration program.

Half course. First semester. M. W. F., 9. MR. KELLEY

Business Administration 23a. Advertising. An introduction to the principles and practices of advertising. The emphasis is on the use of advertising as a tool of marketing. Topics studied include the economic functions of advertising, advertising research, media selection, advertising organizations, and testing.

Half course. First semester. MR. KELLEY

Offered in alternate years. Omitted 1952-53.

Business Administration 23b. Salesmanship. A study of the basic principles and problems of modern salesmanship; functions of sellers, basic knowledge needed in selling, and specialized sales problems.

Half course. Second semester. MR. KELLEY

Offered in alternate years. Omitted 1952-53.

Business Administration 27a. International Trade and Finance. A study of the nature, theoretical basis, methods of financing and government control of the international movement of goods.

Half course. First semester. Omitted 1952-53.

Business Administration 109a. Sales Management. A course designed to give the student experience in analyzing sales problems, arriving at practical solutions, and defending these solutions. Sales administration, operation, control, promotion, and policies are studied during the course.

Half course. First semester. M. W. F., 11. MR. KELLEY
Offered in alternate years.

Business Administration 124. Principles of Marketing. An analysis of the institutions and processes involved in the distribution of goods and services, including a study of consumer motivation, retailing and wholesaling institutions, and marketing policies and practices. Attention will be given to study and discussion of actual marketing problems.

Half course. MR. KELLEY
Omitted 1952-53.

Business Administration 125b. Retailing Principles. A survey of the major phases of retailing including discussions of the retailer in our economy, the store and its organization, aspects of buying and selling, operating activities and personnel, and retail control.

Half course. Second semester. M. W. F., 9. MR. KELLEY

Business Administration 203b. Marketing Research. A study of the types of problems faced by business executives in marketing and the ways in which the methods of scientific business research can be used for their solution.

Half course. Second semester. M. W. F., 11. MR. KELLEY

MATHEMATICS AND STATISTICS

Business Administration 13. Business Mathematics. An elementary course designed to give the necessary foundation for an understanding of the basic processes involved in business transactions.

Required of freshmen in the Business Administration program.
Through the year. Tu. Th. S., 10. MR. STUBBE

Business Administration 16. Business Statistics. This course is designed to give the student a knowledge of the basic statistical techniques and procedures as they are applied to business and economic data. Lectures and laboratory exercises.

Indivisible Course. Required for the degree of Bachelor of Business Administration.

Through the year, Tu., Th. 9 a.m. and Tu., 2 to 4 p.m.

MR. NORDSTROM and MR. HARGEST

Mathematics 11. Freshman Mathematics.

Mathematics 17. Mathematical Statistics.

PSYCHOLOGY

See also announcement of Department of Psychology

Psychology 11. General Psychology.

Psychology 190b. Industrial Psychology.

Department of Chemistry

PROFESSOR BULLOCK, PROFESSOR MARTELL, ASSOCIATE PROFESSOR KEGELES, ASSISTANT PROFESSOR MARTIN, VISITING LECTURER KLEIN

Courses in chemistry fall into two groups:

First, those primarily for undergraduates. These furnish a foundation for professional work in chemistry or medicine, and are suitable for students desiring some knowledge of the subject as part of their general education.

Second, those primarily for graduate students.

UNDERGRADUATE WORK

Students who intend to become professional chemists or to study for an advanced degree in chemistry should major in chemistry and take at least two years' work in physics.

They are advised to conform as closely as possible to the schedule given below.

REPRESENTATIVE FOUR YEAR CURRICULUM IN CHEMISTRY

First year

English 11
German 11
Chemistry 11
General Education 14
Mathematics 11

Second Year

Chemistry 13
Chemistry 14a and 14b
Physics 11
Mathematics 12
German 12

Third Year

Chemistry 15
German 13
Group D—½ course minimum
Group C—½ course minimum
One or two of the following:
  Mathematics 13, Physics 16,
  Physics 18, Physics 124,
  Biochemistry, Biology.

Fourth Year

Chemistry 19
Group B—1 course
Three full courses from the following list:
  Chemistry 112b or 116,
  Chemistry 212b, Chemistry 215,
  Physics 15, Physics 17,
  Physics 22, Biology,
  Mathematics.

Chemistry 19, required of all chemistry majors, is essential for work in physiology. Two years of mathematics are required preparation for Chemistry 19 and for graduate work in chemistry. A third year of mathematics is strongly recommended. The same amount of mathematics is required for all who elect chemistry as a "major," and for all who expect to become professional chemists.

For professional work in chemistry, at least one year of graduate study is highly desirable.

Students who intend to enter the field of secondary education should acquaint themselves with the requirements in "education" of state and local licensing boards and prepare to meet these requirements. This may necessitate the omission of certain elective courses scheduled for the third and fourth years.

In most colleges, premedical students major in chemistry. Program B, outlined in the announcement of the Department of Biology, lists the courses most suited for preparation for all "Class A" medical schools. The special advantage of this program is the inclusion of Chemistry 19 (Physical Chemistry), necessary preparation for physiology.

Attention is called to laboratory fees and breakage deposits listed under the general heading "The Undergraduate Colleges" and the special heading "Fees and Expenses".

GRADUATE WORK

The Department of Chemistry offers advanced courses in the fundamental principles of physical, organic, inorganic and analytical chemistry, and these are supplemented by specialized courses and research work in physical and organic chemistry. The graduate program is designed to lead to the degrees of Master of Arts and Doctor of Philosophy. Besides a successful completion of the fundamental courses offered in the graduate school, candidates for both degrees must show facility in conducting a laboratory investigation and a command of the subject which is chosen for the thesis or dissertation.

All graduate students are required to have an adequate reading knowledge of French and German. This requirement applies to candidates for both the master's degree and the doctor's degree.

Students registered for advanced degrees are expected to spend not less than eighteen hours per week in the laboratory. This may include special laboratory work in organic, inorganic, and physical chemistry.

Graduate scholarships and fellowships are available to students in this department. Further information may be obtained from the chairman of the department.

Courses in Chemistry

During the academic year 1952-53 the following courses were given: 11, 14a, 14b, 15, 19, 112b, 116, 212b, 215, 225, 33, 34, 35, 38, 315, 322, 323.

In 1953-54 the following courses will be offered: 11, 13, 14a, 14b, 15, 19, 112b, 116, 212b, 215, 236b, 31a, 31b, 35, 36, 38, 315, 321, 333.

1. PRIMARILY FOR UNDERGRADUATES

11. *General Chemistry.* Systematic study of the elements and their principal compounds and the fundamental laws and theories of chemistry. Three lectures and three hours of laboratory work per week.

Prerequisite for all other courses in chemistry.
Divisible only by consent of instructor.
Through the year. M. W. F., 11; M., 2 or Th. 2. Mr. Bullock

13. *Organic Chemistry.* (Given as Chemistry 15 in 1952-53.) Lectures on the principles of organic chemistry and a laboratory study of the preparation and properties of important organic compounds. Three lectures and three hours of laboratory per week.
Prerequisite: a grade of C–, or better, in Chemistry 11.
Through the year. M. W. F., 9; Th., 2. Mr. Martell

14a. *Gravimetric Analysis.* Required for a major in chemistry. Chiefly laboratory work.
Prerequisite: Chemistry 11.
Half course. First semester. Tu. F., 2. Mr. Bullock

14b. *Volumetric Analysis.* Required for a major in chemistry. Chiefly laboratory work.
Prerequisite: Chemistry 11.
Half course. First semester. Tu. F., 2. Mr. Bullock

15. *Chemical Principles.* (Offered as Chemistry 13 in 1952-53.) A study of the use of chemical principles in working out problems, including the study of gases, solutions, thermochemistry and homogeneous equilibrium. Three lectures and three hours of laboratory work per week.
Prerequisites: Chemistry 11.
Through the year. M. W. F., 11; M. 2. Mr. Martin
Omitted 1952-53.

19. *Physical Chemistry.* Principles of physical chemistry including atomic and molecular structure, gases, liquids, solutions, crystalline solids, chemical thermodynamics, homogeneous and heterogeneous equilibria, electrolytic conductance and transference, electromotive force, reaction kinetics, colloids.
Required for a major in chemistry.
Three hours of lectures and four hours of laboratory per week.
Prerequisites: Chemistry 15, 14b, Mathematics 12, Physics 11. Mathematics 13 is strongly recommended.
Through the year. Tu. Th. S., 10; F., 2. Mr. Kegeles

112b. *Physico-Chemical Methods.* An advanced laboratory course in physical chemistry. Registration limited.
Open to students who have taken or are taking Chemistry 19.
One lecture and six hours of laboratory work per week.
Half course. Second semester. Mr. Kegeles

116. *Advanced Organic Chemistry.* Electron theory of molecular structure, reaction mechanisms, natural products and other advanced topics in organic chemistry. Laboratory work includes qualitative and quantitative organic analysis, and special problems in synthesis.

Prerequisites: Chemistry 13 and 14b.

One lecture and 6 hours of laboratory work per week.

Through the year. T. W. Th., 2. MR. MARTIN

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

212b. *History of Chemistry.* Outline of historical development of the science, and the relation of chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis.

Open to graduate students and seniors who take or have taken Chemistry 13 and 19 or equivalent courses.

Half course. Second semester. M. W., 10. MR. BULLOCK

215. *Honors Course.* Primarily for candidates for "honors in chemistry." STAFF OF THE DEPARTMENT

225b. *Introduction to Polymer Chemistry.*

Second semester. Th., 7-9. MR. KLEIN AND MR. KEGELES

236b. *Principles of Instrumental Analysis.* The theory underlying the use of instruments in chemical analysis—including potentiometry, the dropping mercury electrode, spectrophotometry, colorimetric analysis, measurements of refractive indices, chromatography, sedimentation, diffusion and electrophoresis.

One hour of lecture and six hours of laboratory per week.

Half course. Second semester. Hours to be arranged.

Omitted 1952-53. MR. MARTIN

3. PRIMARILY FOR GRADUATE STUDENTS

31a. *Reaction Mechanisms.* Lectures on the behaviour of organic substances from the viewpoint of resonance and electronic structure.

31b. *Stereochemistry.* Lectures on geometrical and optical isomerism. Studies on the preparation and use of optically active compounds.

Three hours throughout the year. MR. MARTELL

Chemistry 31a and 31b are offered together in alternate years. Omitted 1952-53.

PLEASE POST

PLEASE POST

CLARK UNIVERSITY
DEPARTMENT OF CHEMISTRY
Worcester 10, Mass.

"INTRODUCTION TO POLYMER CHEMISTRY"

by

Visiting Lecturer Max Klein, Monomer-Polymer, Inc., Leominster, Mass.

The Clark University Chemistry Department takes pleasure in offering a new course in polymer chemistry on a graduate level. The widespread and varied applications of synthetic high polymers and plastics throughout industry justifies the conviction of the Department that a course in the basic chemistry and physics of these materials and their production is important to the modern training of a chemist. The Department is fortunate in having associated with it Visiting Lecturer Klein, whose background assures the following general objectives of the course: to provide valuable general information on polymers to the graduate chemist working in other fields, to provide chemical guidance to the chemist entering the polymer industry, and to allow the experienced industrial chemist to become familiar with the theoretical background of the field of synthetic high polymeric materials.

In addition to being open to regularly enrolled graduate students, the course will be offered in the evening so as to be available to qualified chemists working in the area accessible to Worcester.

"INTRODUCTION TO POLYMER CHEMISTRY" will be given by Visiting Lecturer Klein during the second semester of the current academic year as Chemistry 325b, in association with Dr. Gerson Kegeles of the Department of Chemistry. It will include the following topics:

1. Nature and types of polymers—classification, structure, and polyfunctionality.
2. Mechanism and kinetics of polymerization.
3. Condensation polymerization.
4. Addition polymerization.
5. Molecular constitution.
6. Polymer-liquid interaction.
7. Properties of solutions — polymer molecular weights as studied by osmotic pressure, viscosity, sedimentation, and diffusion.
8. Mechanical properties of polymers.

The sugggested time for lectures is Thursday evening from 7 to 9:15.

The course is open to any college graduate possessing a bachelor's degree with a major in chemistry or chemical engineering. The tuition charge is $50.00, plus a $5.00 matriculation fee. The final registration date is January 29, 1953, and the first meeting is scheduled for February 5 at 7:00 p.m.

For further information write to Dr. Gerson Kegeles.

321. *Advanced Physical and Colloid Chemistry.* Selected topics in physical and colloid chemistry described in detail. Introduction to thermodynamics. Phase rule. Chromatography. Electrochemistry. Osmotic and sedimentation equilibrium. Molecular kinetic properties of macromolecules in steady state systems.
Offered in alternate years. Omitted 1952-53. MR. KEGELES

322. *Quantum Mechanics.* Introductory quantum mechanics and the application of the wave theory of matter to chemical structure.
Offered in alternate years. To be omitted 1953-54. MR. MARTELL

323. *Chemical Thermodynamics.* Applications of classical thermodynamics to chemical systems. Statistical mechanical analogs of thermodynamic functions.
To be omitted 1953-54. MR. KEGELES

324b. *Macromolecules.* Some physical properties of protein molecules and crystals, virus particles, and synthetic high polymers.
Omitted 1952-53. MR. KEGELES

33. *Organic Chemical Reactions.* Lectures on the fundamental reactions in organic chemistry.
Offered in alternate years. MR. BULLOCK
To be omitted 1953-54.

333. *Heterocyclic Compounds.*
Offered in alternate years. Omitted 1952-53. MR. BULLOCK

34. *Advanced Inorganic Chemistry.* Lectures on selected topics in inorganic chemistry.
Offered in alternate years. To be omitted 1953-54. MR. MARTIN

35. *Seminar.* Reports on research work being performed in the laboratory and reports and discussions of recently published work in related fields.
THE STAFF AND GRADUATE STUDENTS

36a. *Principles of Analytical Chemistry.* Lectures on the theoretical basis of analytical chemistry.
Offered in alternate years. Omitted 1952-53. MR. MARTIN

38. *Current Topics in Chemical Literature.* THE STAFF

315. *Research.* THE STAFF

Department of Classics

Assistant Professor Barlow

The Department of Classics provides undergraduate courses for the acquisition of a reading knowledge of Greek and Latin and for the study of Greek and Latin literary masterpieces in their original form. Advanced courses providing a major in Classics are offered from time to time as the need arises. In addition to the courses requiring knowledge of an ancient language, there are others given entirely in English, which deal with all phases of the Greek and Roman civilizations.

Since it may not be possible to offer courses in elementary Latin and Greek every year, students who desire to elect them should consult the instructor as far in advance as possible.

During the academic year 1952-53 the following courses were given: Greek 13, 123a; Latin 11, 19, 123b.

1. PRIMARILY FOR UNDERGRADUATES

GREEK

11. *Elementary.* Study of Greek grammar through forms, syntax, vocabulary, and reading; selections from Xenophon's Anabasis.
Indivisible course.
Open to freshmen.
Through the year. Mr. Barlow
Omitted 1952-53. To be offered 1953-54.

12. *Plato, Apology and Crito; Homer, Iliad.*
Course not regularly offered.

13. *Greek Drama.* Prerequisite, Greek 12 or equivalent.
Open to freshmen.
Through the year. M. W. F., 9. Mr. Barlow

123a. *Greek Civilization.* Lectures and readings on the history, literature, philosophy, art, religion, and government of Greece, with emphasis on the elements which have contributed most to Western civilization. Given in English.

Greek 123 may be counted in fulfillment of the general requirement in art, music, and literature (Group D), but not in fulfillment of the requirement in foreign language.
Open to freshmen.
Half course. First semester. Tu. Th. S., 11. Mr. Barlow

LATIN

11. *Elementary.* Introduction to the Latin language through study of forms, syntax, and vocabulary, with emphasis on the Latin element in English words. Reading of selections from Latin prose.

Indivisible course.

Open to freshmen. Mr. Barlow

Through the year. T. Th. S., 9.

12. *Cicero, Orations; Vergil, Aeneid.*

Prerequisite: Latin 11 or two years of Latin for admission.

Open to freshmen. Mr. Barlow

Omitted 1952-53.

13. *Selections from Horace and Catullus; Comedies of Plautus and Terence.* The work of the course may begin with easy prose selections, to satisfy the lack of uniformity in preparation in secondary schools.

Prerequisite: Latin 12 or three or four years of Latin for admission.

Open to freshmen.

Through the year. Mr. Barlow

Omitted 1952-53. To be offered 1953-54.

15. *Livy and Tacitus; Cicero, De Amicitia, and Lucretius.*

Course not regularly offered.

17. *Roman Satire; Medieval Latin.*

Course not regularly offered.

19. *Survey of Latin Literature.*

Prerequisite: Latin 13 and one other course.

Open to juniors and seniors only.

Through the year. M. W., 2 - 3:15. Mr. Barlow

123b. *Roman Civilization.* Lectures and readings on the history, literature, philosophy, art, religion, law, and government of ancient Rome, with emphasis on the transmission of Greek civilization, on the developments which have contributed to Western civilization, and on the condition of the Roman Empire during the early years of the development of Christianity. Given in English.

Latin 123 may be counted in fulfillment of the general requirement in art, music, and literature (Group D), but not in fulfillment of the requirement in foreign language.

Open to freshmen.

Half course. Second semester. Tu. Th. S., 11. Mr. Barlow

Department of Economics and Sociology

PROFESSOR MAXWELL,* PROFESSOR LUCAS, ASSOCIATE PROFESSOR MELDER, ASSOCIATE PROFESSOR KILLIAN, ASSOCIATE PROFESSOR HARGEST, ASSISTANT PROFESSOR KELLEY, ASSISTANT PROFESSOR NORDSTROM, ASSISTANT PROFESSOR SCHAFFER, LECTURER BREEN.

The first aim of the department, in its undergraduate courses, is to give the student a comprehensive grasp of the underlying principles and functions of our economic and social institutions, and to develop habits of systematic and unbiased thought about these institutions. Some of the courses, however, contribute to the student's preparation for a business or professional career (Economics 13, 15a, 22, 26, etc.) and are specifically recommended to students who are candidates for the degree of Bachelor of Business Administration. Conversely, some students majoring in economics may be advised to elect certain courses in Business Administration which are credited toward the degree of Bachelor of Arts (Business Administration 10, 16, 112, 117, 18, 124, 127, 20, 27a, 203, 220).

Economics 11 is a prerequisite to all other courses in economics. Similarly Sociology 11 is a prerequisite to other courses in Sociology. Courses taken outside the department in partial fulfillment of the major requirement should be selected, subject to departmental approval, so as to provide a unified program centering about the student's major interest. Majors in economics will ordinarily be required to take Economics 205a, Intermediate Economic Theory, and also Economics 280a, Senior Comprehensive.

Candidates for departmental honors will engage in a program of independent study consisting of reading and research designed in part to give them specialized training in the fields of their major interest and in part to supplement formal courses. Ordinarily a student will not begin his independent study until the second semester of the junior year, nor will he undertake the equivalent of more than two courses in this manner.

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*Absent on leave, second semester 1952-53.

Courses in sociology will be found listed, with descriptions, immediately after the list of courses in economics.

In making elections, students should bear in mind that some advanced courses are offered only in alternating years.

GRADUATE WORK

Students expecting to enter upon graduate work should have mastered creditably basic courses in economics equivalent to at least four courses, including Economics 11; those whose preparation is inadequate should expect to remove the deficiency before proceeding to study for a higher degree.

A range of courses sufficient for the needs of candidates for the doctorate is offered in cycles of two or three years. Individual work with instructors and in small intimate seminars constitutes a goodly part of the graduate student's program. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work.

Fellowships, scholarships, assistantships, and other aids are available to a limited number of worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

Courses in Economics

During the academic year 1952-53 the following courses were given: Economics 11, 13a, 21a, 21b, 22, 25a, 26, 28, 205a, 206b, 207, 210a, 211b, 280a, 39a, 311, 321, 322, 324, 325, 326, 327, 338.

Descriptions of courses listed below under the designation "Business Administration" will be found in the announcement of "Courses in Business Administration".

1. PRIMARILY FOR UNDERGRADUATES

11. *Principles of Economics.* An introduction to the fundamental economic principles, together with a study of the practical application of these principles to the problems of American life.

A class fee, $1.00 per year for each member of the class, is charged in Economics 11.

Indivisible course.

Through the year. M. W. F., 11. Mr. Lucas
Assisted by Mr. Weiner

Business Administration 112. Personnel Management.

Business Administration 117. Accounting.

Business Administration 124. Marketing.

Business Administration 127. Intermediate Accounting.

13a. *Money and Banking.* The principles of money and banking; characteristics of the American monetary and banking system; theoretical relations of money, prices, income.
Half course. First semester. M. W. F., 10. MR. MAXWELL

13b. *Money and Banking.* Central banks, particularly the Federal Reserve System; monetary standards; theories of foreign exchange; monetary policy in the United States.
Prerequisite: Economics 13a or its equivalent.
Half course. Second semester. M. W. F., 10. MR. MAXWELL
Omitted 1952-53.

140b. *Consumer Economics.* A study of family budgets, planes of living, and other problems arising in the purchase of the customary goods and services. Emphasis is upon housing, insurance, savings, investments, consumer services supplied by advertisers, private non-commercial agencies, the government, and the cooperative movement.
Half course. Second semester. Tu. Th. S., 9.
Omitted 1952-53.

15a. *Public Finance.* The principles of governmental expenditures, revenues, and debts, with particular reference to the United States.
Half course. First semester. M. W. F., 9. MR. MAXWELL
Omitted 1952-53.

Business Administration 16. Statistics.

Business Administration 18. Business Organization and Finance.

115b. *Fiscal Development of the United States.* This course treats the development of the functions and revenues of the federal government and of the state governments (with brief notice of municipalities). For the recent period most attention is given to federal-state fiscal interrelations in the form of federal grants-in-aid, tax conflicts and shared taxes. Recent proposals for a revision of federal-state fiscal relations both for the purpose of bringing federalism up to date and for implementing a high employment program are considered.

Prerequisite: Economics 11, or concurrent enrollment.
Half course. Second semester. MR. MAXWELL
Omitted 1952-53.

19b. *Economics of National Security.* This course examines the special economic problems faced by our contemporary American society as it undertakes a program of general military preparedness. Particular attention is given to overall American foreign policy and its relation to economic problems in production, resources and economic controls.

Prerequisite: Economics 11, or concurrent enrollment.
Half course. Second semester. MR. SCHAFFER
Omitted 1952-53.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

Business Administration 20. Business Law.

205a. *Intermediate Economic Theory.* An analysis of contemporary economic theory, with attention to consumer demand, production, factor demand, prices, market structure, and aggregate economics.

Half course. First semester. Tu. Th. S., 8. MR. SCHAFFER

Business Administration 203. Marketing Research.

206b. *Economics of Industry.* Description and analysis of some basic American industries with emphasis on their important problems.

Half course. Second semester. Tu. Th. S., 9. MR. SCHAFFER

207. *International Economics.* The first half of the course reviews the rise of an international economy, the theory which accompanied it and the monetary mechanisms and analysis which underlay its operation. The second half is concerned with problems created by national policies, wars, and depressions.

Through the year. Tu. Th., 1:30 - 3. MR. MELDER

21a. *Business Cycles.* Analysis of recurrent business fluctuations differentiating the typical business cycle and its phases. Treatment of the history, theories of causation and proposals for control of the business cycle.

Half course. First semester. Tu. Th. S., 10. MR. SCHAFFER

21b. *National Income Analysis.* A study of national income accounts and analysis of depression, full employment and inflation under capitalism. Special emphasis on the work of J. M. Keynes and other contemporaries.

Half course. Second semester. Tu. Th. S., 10. MR. SCHAFFER

210a. *Economic and Social Reform.* A study of the development of economic institutions involved in society's attempt to solve its basic economic problems. General emphasis on free enterprise, planning and contemporary industrial organization oriented towards an improved understanding of the American economy.

Half course. First semester. Tu. Th. S., 11. MR. SCHAFFER

211b. *Comparative Economic Systems.* An analysis of contemporary and recent industrialized economic systems, particularly Great Britain, U.S.S.R., Nazi Germany, Fascist Italy, and Sweden.

Prerequisite: Economics 11, or concurrent enrollment.

Half course. Second semester. Tu. Th. S., 11. MR. SCHAFFER

Business Administration 220. Analysis of Business Problems.

22. *Labor Economics and Labor Problems.* The first semester is devoted to a survey of the nature of labor economics and labor problems, including the several approaches of organized workers and employers to these problems. The second semester is concerned with the approach of government to labor force problems including industrial relations and social insurance.

Through the year. Tu. Th. S., 9. MR. MELDER

231. *Economic History of the United States.* In the first semester, colonial agriculture, industry, commerce and finance are briefly treated, followed by the Revolution and the Constitution, financing the Revolution, economic development to the Civil War, economic background and consequences of the Civil War. In the second semester the main topics are economic developments in agriculture, transportation, population, labor, industry, finance, currency and banking.

Through the year. M. W. F., 11.

MR. MAXWELL AND MR. CAMPBELL

Omitted 1952-53.

25a. *Problems in Public Finance.* This course deals mainly with problems of post-war taxation and fiscal policy. The theory underlying the so-called "full employment" act of 1946 is discussed, along with methods by which it may be implemented. Other ques-

tions for examination are reform of the federal corporate income tax and death duties, incentive taxation, federal debt policy, the capital budget, federal budgetary procedure.
Half course. First semester. M. W. F., 9. Mr. Maxwell

26. *Government and Industry.* An analysis of the proper function of government in controlling economic activity, including theories of control, historical development of control, and such special problems as the regulation of trusts, public utilities, and railroads.
Through the year. Mr. Lucas

Business Administration 27a. International Trade and Finance.

28. *Research in Selected Economic Problems.* Includes departmental honors work and other individual projects completed for credit.
Hours as arranged. Staff of the Department

280a. *Senior Comprehensive.* A survey designed to assist majors in integration of the field. Required for all senior majors.
Half course. First semester. Hours as arranged.
Staff of the Department

29a. *Economics of Transportation.* A study of the development of the transportation system of the United States; its contemporary structure, importance, and economic aspects; the development of public control. Railway rate making and standards therefor; railway combinations and proposals for consolidation; railway labor problems.
Half course. First semester.
Omitted 1952-53.

3. PRIMARILY FOR GRADUATE STUDENTS

39a. *Economic Theory.* Analysis of the theories of representative economists. Most attention is given to Marshall, Chamberlin, Keynes.
Through the year. W. F., 2 - 3:30. Mr. Maxwell

311. *Seminar.* Staff of the Department
Through the year. W., 7:30 - 9:30; Th., 4 - 6.

Research courses are offered to meet the needs of the individual students for work not presented in regularly scheduled courses.

321. *Research in Business Cycles.* Mr. Schaffer

322. *Research in Labor.* Mr. Melder

324. *Research in Marketing.* Mr. Kelley

325. *Research in Public Finance and Money and Banking.* Mr. Maxwell

326. *Research in Business Organization and Government Control of Business.* Mr. Lucas

327. *Research in International Economics.* Mr. Melder

338. *Thesis.* Staff of the Department

Sociology

An undergraduate whose primary interest is in sociology may meet the departmental requirement for a major by completing Economics 11 and three or four courses in sociology together with three or two approved courses in related departments. History 10, 205 and 230, Psychology 200 and 203, and Government 15 are particularly recommended for this purpose.

GRADUATE WORK

Students expecting to enter upon graduate work should have mastered creditably basic courses in sociology equivalent to at least four courses, including Sociology 11; those whose preparation is inadequate should expect to remove the deficiency before proceeding to study for a higher degree.

A range of courses sufficient for the needs of candidates for the master's degree only is offered. Individual work with instructors and in small intimate seminars constitutes a goodly part of the graduate student's program. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work.

Fellowships, scholarships, assistantships, and other aids are available to a limited number of worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

Courses in Sociology

During the academic year 1952-53 the following courses were given: 11a, 11b, 13b, 16b, 25a, 28, 29. In the 1952 summer term: 12a, 21a.

1. PRIMARILY FOR UNDERGRADUATES

11. *Principles of Sociology.* A study of human origins and the development of man and his culture; cultural and ethnic backgrounds of social life; personality, culture and social structure; social organization and structure; social relations, social groups, collective behavior, human ecology; social differentiation and stratification; socialization and social interaction; social disorganization and change; social institutions and social norms.

A class fee, $1.00 per year for each member of the class, is charged in Sociology 11.

Prerequisite for further work in sociology.

Through the year. Tu. Th. S., 11. Mr. Killian
Assisted by Mr. Goldfaden

12a. *Introduction to Cultural Anthropology.* The evolution and development of man and his culture: Basic concepts; the races of man and their distribution; process of adaptation and adjustment through culture; primitive, historic and modern culture complexes compared; divergence, transmission, and function of culture; origin and growth of civilizations; contemporary preliterate peoples; relationship of anthropology to the other social sciences.

Half course. Mr. Killian
Omitted 1952-53.

13b. *Crime, Delinquency and Society.* Study of the explanations for crime and delinquency; history of punishment; other methods of control. Survey of the English and American criminal law and administration of criminal justice; development of penal and correctional methods including probation, parole, release procedures; the juvenile court. Proposals for youth courts and youth correction authorities. Emphasis on crime as a system of behavior. Proposals for dealing with crime and delinquency.

Half course. Second semester. Mr. Killian

16b. *Social Problems and Their Analysis.* A study of current social problems in the setting of social and cultural change; trends affecting the quantity and quality of problems; mobility, urbanization, secularization, individualization, population composition. A

111b. Foundations of Human Behavior Mr. Killian
(Course offered for nurses, primarily)
Half course, Second semester. T, Th., 4-5:30

study, in this setting, of typical and selected problems such as dependency, personal maladjustment, group disfunction, institutional breakdown, minority groups and deviant behavior with particular reference to policy formation and institutional procedures.

Half course. Mr. Killian

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

21a. *The Family and Society.* A study of the form and function of the family at different culture levels; the influence of geographic, biological, demographic and cultural forces; secondary groups and the family; rural and urban family.

Half course. First semester. Mr. Killian
Omitted 1952-53.

22b. *Race and Nationality.* The meaning of race; the distribution of ethnic groups; ethnic group characteristics—biological and environmental theories. The meaning of nationality; early types of immigrants in America; the cultural backgrounds of the earlier Americans. American minority groups and problems—the Negro, the Jew and other minority groups. The effects of later immigration; immigration restrictions and the quota system; displaced persons and proposed legislative control measures; prospective future of the American population.

Half course. Second semester. Mr. Killian
Omitted 1952-53.

24b. *Community Organization.* The contemporary American urban and rural community in action. Nature and types of community; its place in history. Organization of communities in rural and urban life. Community studies and surveys. The constellation of community social agencies. The field of social work, recreation and welfare. Community chests and councils. Sociology and community organization.

Half course. Second semester. Mr. Killian
Omitted 1952-53.

25a. *Social Institutions.* Institutional theory: the history and development of major social institutions.

Social Control and Social Institutions. The basis of institutions in primitive experience: life functions and belief systems of primitive peoples; family and kinship systems as points of departure for institutional differentiation. Religious institutions: institutional aspects of religions in the historical contexts of Hebrew, Greek, Roman and modern experiences.

Prerequisites: Sociology 11 or permission of the instructor.
First semester. Tu. Th., 1:30 - 3. MR. KILLIAN

25b. *Social Institutions. Legal Institutions.* Law and the social order: development of Western legal institutions; the normative content and analysis of legal institutions and law; the legal tradition in Western society; law as a means of social control. Law, science and policy: law and its functions in modern times; the changing basis of legality; premises concerning man and his world in relation to law and its function. Sociology, anthropology and law: selected readings in theory and analysis of case materials.

Second semester. MR. KILLIAN
Omitted 1952-53.

28. *Research in Selected Sociological Fields.* Includes departmental honors work and other individual projects completed for credit.

See also: Economics 140b, 210a, 22.

29a. *Social Theory and Introduction to Sociological Concepts.* The development of man's ideas about social life, emphasizing the chief contributions from Plato and Aristotle to Herbert Spencer. The general progress of sociology since Spencer.
Half course. First semester. Tu. Th. S., 10. MR. KILLIAN

3. PRIMARILY FOR GRADUATE STUDENTS

38. *Research.*

See also: Economics 311, 322.

Department of Education

Professor Jones, Assistant Professor Lane, Assistant Professor Borger

With the cooperation of Professor Illingworth of the Department of English, Associate Professor Warman of the Graduate School of Geography, Assistant Professor Beck of the Department of Philosophy, and Mr. Granger, Director of Physical Education for Men.

The department has as its primary objective the providing of professional study for teachers and prospective teachers in secondary schools. It offers work leading to the degree of Master of Arts in Education and specializes in instruction leading to that degree. Many of the regular courses are scheduled in the late afternoons to meet the needs of both full-time students in Education and in-service teachers.

UNDERGRADUATE WORK

A limited number of courses are open to juniors and seniors in the College who wish an introduction to the field for purposes of general education or pre-professional training. The Department recommends, however, that undergraduate students looking to secondary school teaching as a career concentrate upon the subject-matter fields in which they desire to teach, and reserve for a fifth year the professional work in the theory and practice of education. In keeping with this general plan an undergraduate major in education is not offered.

GRADUATE WORK

The requirements for the degree of Master of Arts in Education cannot be adequately stated in terms of courses to be taken, because the evaluation of the work of each student will be made on the basis of achievement rather than on the basis of courses completed. However, the minimum essentials in terms of course requirements are outlined below.

Course requirements. The student is expected to elect one of the following groups of studies as the field in which he wishes to teach:

(a) Mathematics and natural sciences
(b) History, geography, and economics
(c) Ancient and modern foreign languages
(d) English, alone or in combination with some related subject.

Prior to receiving the degree, the candidate must have completed in undergraduate and graduate study combined not less than five year-courses in one of the above groups, or in a combination of groups approved by the Department of Education. At least two semester-courses in a subject-matter field must be taken as a part of the study in residence for the advanced degree and must be passed with a grade satisfactory for graduate credit. In addition to the above requirement in the subject-matter field, eight semester-courses of graduate work in education will normally be required. The program of courses to meet these requirements must be approved in advance by the Department. Changes in the proportion of education and subject-matter courses may be made by the Department on the basis of the candidate's previous training. Work, additional to the above requirements, either in the subject-matter field or in education, or both, may be required if this seems necessary for the adequate preparation of the candidate.

Apprenticeship Teaching. The Department provides opportunities for apprenticeship teaching under supervision for all graduate students majoring in Education. For graduate students of the Department who have not had teaching experience, satisfactory work in apprenticeship teaching is a requirement for the degree of Master of Arts in Education.

Thesis. All candidates for the degree of Master of Arts in Education must present an acceptable thesis or special report, as a part of the requirement for that degree. The thesis will be adapted to the vocational needs of the candidate and will not be regarded as an index of his capacity for research. In this respect it may differ somewhat from the thesis required of candidates for the degree of Master of Arts in other fields.

Courses in Education

During the academic year 1952-53, the following courses were given: 25b, 200b, 201a, 201b, 207b, 208a, 208b, 209a, 210a, 214, 290b, 311, 313, 315a, and Geography 20b.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

200b. *Social Foundations of Education.* An analysis of elements in our American Society that form the background for our educational principles and practice.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. M. W. F., 9. Mr. Borger

To be omitted 1953-54.

201a. *Educational Psychology: Child Growth and Development.* A study of the principles basic to the understanding of children with special attention to emotional and social development and learning in the elementary school years.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. First semester. W., 4 - 6. Mr. Lane

201b. *Educational Psychology: Adolescent Growth and Development.* A study of psychological principles as they bear upon learning and other problems of education with special reference to the growth and development of youth of secondary school age.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. W., 4 - 6. Mr. Jones

203b. *Curriculum Development in Secondary Education.* A study of the historical background, basic issues, principles and procedures of curriculum organization and development.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. Tu., 4 - 6. Mr. Borger

Omitted 1952-53. To be offered 1953-54.

205b. *The Teaching of English.* Methods of teaching composition, poetry, drama, novel and short story.

Half course. Second semester. M., 4 - 6. Mr. Illingworth

Omitted 1952-53. To be offered 1953-54.

207b. *Use of Audio-Visual Materials and Community Resources in Teaching.* A survey of principles and practices in the use of visual and auditory materials and community resources in teaching. Provisions will be made for extra meetings for undergraduates desiring a third hour of credit.

Half course. Second semester. F., 4 - 6. MR. BORGER

208a. *Methods and Materials in Secondary Education.* A study of methods and techniques used by the teacher in the secondary classroom and a survey of materials available.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. First semester. Th., 4 - 6. MR. BORGER

208b. *Principles of Secondary Education.* A survey of the major objectives of education, the special functions of the secondary school, and the principles which underlie the learning and teaching process.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. Th., 4 - 6. MR. BORGER

209a. *Teaching of the Social Studies.* A study of objectives, methods and materials in the teaching of the social studies in the secondary schools.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. First semester. F., 4 - 6. MR. BORGER

210a. *Psychological Approach to Citizenship Development.* A survey and evaluation of the experimental evidence and of the practices in the field of character and citizenship development among children and adolescents.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. First semester. W., 4 - 6. MR. JONES

214. *Tests and Measurements Applied to Psychological and Educational Problems.* A study of the measurement of aptitude, achievement, interest and attitude. Theoretical considerations and practical problems will be included.

Through the year. M., 4 - 6. MR. JONES

Geography 20b. Geography in Education. A survey of geography in the present-day American schools. The course is designed to meet the needs of those expecting to teach geography.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. W., 4-6. MR. WARMAN

25b. *Principles of Physical Education.* The course will provide instruction and laboratory work (1) in the principles and practice of organizing and teaching physical education, and (2) in the administration and teaching of athletic sports including the prevention and care of athletic injuries.

Two hours classroom work, including lecture and discussion, plus four hours laboratory and field work. Permission of instructor required.

Half course. Second semester. Tu., 4-6. Laboratory time to be arranged. MR. GRANGER AND ASSOCIATES

290b. *Philosophy of Education.* An examination of aims, processes and materials of education with special reference to the influence of philosophical ideas on educational problems.

Half course. Second semester. Tu. Th. S., 8.

MR. BECK AND MR. JONES

PRIMARILY FOR GRADUATE STUDENTS

311. *Vocational Guidance.* A survey of the techniques and tools of the vocational counselor, including occupational information, vocational testing, methods of interviewing and counseling, case histories and reports, administration and organization of vocational guidance programs.

Through the year. Tu., 4-6. MR. LANE

313. *Statistical Methods.* The purpose of this course will be to give an understanding of and practice in the statistical methods most valuable in measurement and research.

Through the year. Tu., 4-6. MR. JONES

315a. *Apprenticeship Teaching.* An informal course consisting of extensive practice teaching in the field or fields in which the student plans to teach. Individual supervision is given by the department and by critic teachers in coöperating schools.

First semester. Time to be arranged.

MR. JONES AND MR. BORGER AND CRITIC TEACHERS

350. *Research in Education.* Individual direction of students in their research projects. THE STAFF

360. *Departmental Seminar.*

THE STAFF AND GRADUATE STUDENTS

Department of English

PROFESSOR ILLINGWORTH, ASSOCIATE PROFESSOR ANDERSON, ASSISTANT PROFESSOR MOORE, ASSISTANT PROFESSOR CARTER, AND ASSISTANT PROFESSOR LETENDRE

All freshmen who are candidates for the degree of Bachelor of Arts must take both English 11a and b. Freshmen enrolled in the Division of Business Administration are required to take English 11a and Business Administration 14b. Freshmen may also enroll in English 143b.

General Education 17 (Great English and American Writers) is designed especially for non-English majors, and either half is recommended for students who wish to take a course in literature as a means of fulfilling the requirement of a third semester of English beyond English 11. English 15, 111, and other courses, with the consent of the instructor, are also open to non-English majors.

A major in English consists of seven courses in addition to English 11, as follows:

1. English 15. *For English majors,* this is prerequisite to any of the following courses: 18, 101b, 104, 105, 110b, 113, 117b, 122b, 133b, and 142a.
2. Four half-courses in English from a group of courses open only to juniors and seniors, namely: 18, 101b, 104, 105, 110b, 113, 117b, 122b, 133b, and 142a.
3. Two additional half-courses in English.
4. Three courses in allied fields: General Education 14, a year course in Philosophy, and one other course approved by the department. Recommended courses are: History 12, French 113, German 141, Greek 123a and Latin 123b.

An English major who has not been credited with two units of Latin or Greek for admission to the college must complete either a course in Latin or Greek or a course in Classical civilization (Greek 123a and Latin 123b). If possible, this requirement should be met in the freshman year.

An English major who intends to do graduate work in English should elect at least two additional courses in English and should make certain that his program includes English 18a, 101b, 113, and History 12.

English majors should follow as closely as possible the following program:

First year

English 11
Group A
Group B (General Education 14)
Foreign language
One elective (Fine Arts is recommended)

Second year

English 15
Two half-courses in English from group of courses open to sophomores, namely: 16a, 19b, 111, 126a, 127a, 143b, 146a, 147b, and General Education 18
Group A
Foreign language
One elective. One of the following is recommended: History 12, French 113, German 141, Greek 123a and Latin 123b.

Third year

Two half-courses in English from courses open only to juniors and seniors
Two other half-courses in English (recommended)
Foreign language
Group B (a year course in philosophy)
One elective

Fourth year

Two half-courses in English from courses open only to juniors and seniors
Four other half-courses in English (recommended)
Two electives

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department of English for the best poem by an undergraduate. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

Courses in English

During the academic year 1952-53 the following courses were given: 11, 12, 15a, 15b, 15C, 16a, 18a, 19b, 101b, 105, 11, 117b, 126a, 143b, 146a, 147b; for the Division of Business Administration: B.A. 14b, B.A. 17; in General Education: G.E. 17, G.E. 18a.

Courses in English are classified under the following headings:

I Composition
II A Literature, Surveys and Other General Courses
II B Literature, Special Periods or Individual Authors
III Public Speaking and Dramatics

Course number	Classification	
11	I	Composition
12	III	Public Speaking and Dramatics
15	II A	Literature, Surveys, etc.
16	I	Composition
18	II A	Literature, Surveys, etc.
19	I	Composition
101	II B	Literature, Special Periods, etc.
104	II B	" " " "
105	II B	" " " "
110	II B	" " " "
111	II A	Literature, Surveys, etc.
113	II B	Literature, Special Periods, etc.
117	II B	" " " "
122	II B	" " " "
126	II B	" " " "
127	II B	" " " "
133	II A	Literature, Surveys, etc.
142	II A	" " "
143	II B	Literature, Special Periods, etc.
145	III	Public Speaking and Dramatics
146	III	" " " "
147	III	" " " "
150b	II A	Literature, Surveys, etc.

I. COMPOSITION

11. *Composition and Literature.* The purpose of English 11 is to develop clarity and accuracy in reading and writing. The first semester reviews the principles of rhetoric and offers the student practice in analyzing difficult expository passages. The second

semester aims to help the student develop sound critical principles in evaluating fiction, drama, and poetry.

Required of freshmen in the Bachelor of Arts program. The first semester is required of freshmen in the Business Administration program.

Through the year. M. W. F., 9; 10; 11. Tu. Th. S., 10; 11.
MR. ANDERSON, MR. CARTER, MR. LETENDRE AND MR. MOORE

16a. *Creative Writing.* This course is designed for students who have demonstrated an aptitude for composition and who desire training in creative writing with emphasis on the short story. Individual conferences weekly.

Half course. First semester. Tu. Th. S., 11. MR. MOORE

19b. *Advanced Composition.* This course is designed for students who desire further training in the basic principles of composition. Special attention is given word choice, sentence and paragraph structure, and organization. Exposition is emphasized. Individual conferences.

Half course. Second semester. Tu. Th. S., 11. MR. MOORE

II A. LITERATURE: SURVEYS AND OTHER GENERAL COURSES

15. *A Survey of English Literature.* A course in English literature from its beginning to the present time.

No student may count both English 15 and General Education 17 toward the Bachelor of Arts degree.

Divisible for non-English majors.

M. W. F., 11.
MR. ANDERSON, first semester
MR. MOORE, second semester

In 1952-53 both English 15 as described above and 15C as described below were given.

Previous to 1952-53 English 15 was given as a three-semester course:

A. Beginning to 1660. First semester.
B. 1660 to 1832. Second semester.
C. 1832 to present. Third semester.

General Education 17. Great English and American Writers. See "General Education" immediately preceding the alphabetical list of "Departments and Courses."

18. *The Bible as Literature.* First semester, Old Testament; second semester, New Testament.
Divisible course.
Through the year. M. W. F., 10. Mr. Illingworth

111. *A Survey of American Literature.* A course in American literature from Puritan times to the present.
Divisible for non-English majors.
Through the year. Tu. Th. S., 11. Mr. Anderson, *first semester*
Mr. Letendre, *second semester*
Offered in alternate years. To be omitted 1953-54.

133b. *A History of Literary Criticism.*
Half course. Second semester. M. W. F., 10.
Omitted 1952-53.

142a. *The English Novel.* A study of the novel from its beginning to Thomas Hardy.
Half course. First semester. M. W. F., 8. Mr. Illingworth
Omitted 1952-53. To be offered 1953-54.

II B. LITERATURE: SPECIAL PERIODS OR INDIVIDUAL AUTHORS

101b. *Chaucer.*
Half course. Second semester. M. W. F., 10. Mr. Anderson
Offered in alternate years. To be omitted 1953-54.

113. *Shakespeare and the Elizabethan Drama.*
Divisible course.
Through the year. Tu. Th. S., 11. Mr. Anderson
Offered in alternate years. Omitted 1952-53.

104. *Milton and the Seventeenth Century.*
Divisible course.
Through the year. M. W. F., 9. Mr. Carter
Offered in alternate years. Omitted 1952-53.

105. *Eighteenth Century.*
Divisible course.
Through the year. M. W. F., 9. Mr. Carter
Offered in alternate years. To be omitted 1953-54.

117b. *English Romantic Poetry.*
Half course. Seccond semester. Tu. Th. S., 11. Mr. Moore
Offered in alternate years. To be omitted 1953-54.

110b. *Victorian Poetry.* A detailed analysis of the poetry of Tennyson, Browning, and Arnold.

Half course. Second semester. Tu. Th. S., 10. MR. LETENDRE
Offered in alternate years. Omitted 1952-53.

122b. *Modern Poetry.* Hardy, Hopkins, Yeats, Eliot, and Auden are used as key figures in a general survey of the main trends in modern poetry and poetic criticism.

Half course. Second semester. M. W. F., 10.
Offered in alternate years. Omitted 1952-53.

126a. *Modern British and American Drama.*
Half course. First semester. Tu. Th. S., 10. MR. LETENDRE
Offered in alternate years. To be omitted 1953-54.

127a. *Modern Continental Drama.* A survey of European drama from Ibsen to the present.

Half course. First semester. Tu. Th. S., 10. MR. LETENDRE
Offered in alternate years. Omitted 1952-53.

143b. *The Modern Novel.* A comparative study of representative twentieth century novels of Russia, Germany, France, Sweden, England, and the United States to show how different cultures have treated this vehicle of literary expression.

Open to freshmen.
Half course. Second semester. M. W. F., 8. MR. ILLINGWORTH

III. PUBLIC SPEAKING AND DRAMATICS

12. *Public Speaking.* A course in the composition and delivery of the most commonly used speeches, parliamentary procedure, discussion groups, and vocabulary drill.

Indivisible course.
Through the year. M. W. F., 9. MR. ILLINGWORTH

145a. *Stagecraft.* A study of the principles and problems involved in producing plays. Practical experience will be given through laboratory work and public performances.

Half course. First semester. MR. ILLINGWORTH
Omitted 1952-53. To be offered 1953-54.

145b. *Acting.* Develops the actor from a close study of his basic requirements. An analysis of the emotions, business, pantomime, and interpretation given in theory and practice.

Half course. Second semester. MR. ILLINGWORTH
Omitted 1952-53. To be offered 1953-54.

146a. *Oral Interpretation of Literature.* A course stressing the imagination and the dramatic instinct as fundamental sources of good oral and pantomimic expression. The intellectual elements of vocal expression are studied with special reference to phrasing, inflection, and emphasis; individual and choral speaking.

Permission of the instructor is a condition for enrolling in this course.

Half course. First semester. M. W. F., 10. MR. ILLINGWORTH
To be omitted 1953-54.

147b. *The Oral Interpretation of Shakespeare.* The life of Elizabethan England with special emphasis on the theatre of Shakespeare. The plays to be read will include *Hamlet, Cymbeline, Julius Caesar, King Lear, Othello, The Comedy of Errors, Merchant of Venice, Taming of the Shrew, As You Like It, Henry V* and *Richard II.*

Half course. Second semester. MR. ILLINGWORTH
To be omitted 1953-54.

English History and Literature

AN INTERDEPARTMENTAL MAJOR

An "interdepartmental major" in the field of English History and Literature is offered to candidates for the degree of Bachelor of Arts. The program required for the completion of this major is fully outlined under the earlier heading *Interdepartmental Majors.*

Department of Fine Arts

(ART AND MUSIC)

ASSISTANT PROFESSOR H. E. JOHNSON, MR. COWARDIN

With the cooperation of ASSOCIATE PROFESSOR NICOL, ASSISTANT PROFESSOR BARLOW, ASSISTANT PROFESSOR EDWARDS, and MR. SANTE GRAZIANI, Head of the School of the Worcester Art Museum, and his Staff.

The Department offers two programs for a major in Fine Arts. One is intended for those interested primarily in the history of art. The other is designed to provide sound training in fundamentals for qualified students whose principal interest is in the practice of art.

The second of these programs, offered in cooperation with the School of the Worcester Art Museum, has the advantage of affording a thorough professional grounding in art in combination with liberal arts training. Courses to be taken in the museum school are carefully chosen with regard to the individual student's professional objective. Thus courses vary for those interested in the practice of painting or sculpture, the teaching of art, or commercial art. Students who elect this program will have completed, upon graduation, the approximate equivalent of two years of art school training. It should be emphasized that this is a program leading to the degree of Bachelor of Arts and that students electing it must fulfill all general requirements for that degree.

The specific requirements for a major in Fine Arts are as follows:

History of Art

1) The basic course, Fine Arts 11, to be completed before the end of the sophomore year.
2) Fine Arts 111.
3) General Education 14, to be completed before the end of the sophomore year.
4) Two full courses chosen from the following: Fine Arts 15, 16, 191a, 192a.

5) One full course chosen from the following: French 113, German 141, Greek 123a and Latin 123b.
6) Music 12.

Practice of Art

1) Fine Arts 11.
2) General Education 14.
3) Seven courses listed in the catalog of the School of the Worcester Art Museum.

Courses in Fine Arts

During the academic year 1952-53 the following courses in Fine Arts have been given: 11, 111, 12b, 15, 191a.

1. PRIMARILY FOR UNDERGRADUATES

Fine Arts 11. An Introduction to Western Art. A preliminary discussion of terminology and basic aesthetic considerations in the visual arts is followed by a study of architecture, sculpture, and painting from the beginnings to the present day. Field trips are required.

Open to freshmen.

Through the year. M. W. F., 9. Mr. Cowardin

Fine Arts 111. (Representation I.) Introduction to the drawing or depiction of objects in the field of vision; theory and practice in the statement of line, form, light and shade, and perspective. Study of the nature and use of materials and instruments; exercises from objects and from living models; observation of method and accomplishment found in museum collections.

Through the year. Nine class hours weekly. M. W. F., 1:30. At the Worcester Art Museum. Mr. Graziani and Miss Murphy

Fine Arts 12b. A Survey of Painting in the West. The development of pictorial expression from the beginning to the present. Emphasis is placed upon methods and styles. Field trips are required. Designed primarily for non-majors. May not be counted in addition to Fine Arts 11.

Open to freshmen.

Half course. Second semester. M. W. F., 12. Mr. Cowardin

Fine Arts 15. Art of the Renaissance in Italy. A detailed consideration of the architecture, sculpture, and painting of the Italian

Renaissance. The first semester is devoted to the fifteenth century and the second semester to the sixteenth. Emphasis is placed on the historical background. Field trips are required. Fine Arts 11 is ordinarily prerequisite.

Through the year. M. W. F., 11. MR. COWARDIN
Offered in alternate years. To be omitted 1953-54.

Fine Arts 16. The Art of the Seventeenth and Eighteenth Centuries. A consideration of the origins of the baroque style, followed by a study of major works of European art of the seventeenth and eighteenth centuries. The principal stylistic trends are stressed. The more important artistic personalities—Bernini, Rubens, Rembrandt, Velasquez, and others, are also treated in detail. Field trips are required. Fine Arts 11 is ordinarily prerequisite.

Through the year. M. W. F., 11. MR. COWARDIN
Offered in alternate years. To be offered 1953-54.

Fine Arts 191a. The Art of the Ancient Near East and India. This course is primarily concerned with architecture and sculpture in ancient Mesopotamia, Assyria, Persia, and India. Significant works are examined critically and studied in relation to their historical and religious background. Field trips are required.

Half course. First semester. Tu. Th. S., 9. MR. COWARDIN
Offered in alternate years. To be omitted 1953-54.

Fine Arts 192a. The Art of China and Japan. An introduction to the art of the Far East. Sculpture and painting in China from the prehistoric period to the Ming dynasty, and, in Japan, from the Suiko to the Tokugawa period. Architecture will be treated only incidentally. Field trips are required.

Half course. Tu. Th. S., 9. MR. COWARDIN
Offered in alternate years. To be offered 1953-54.

Fine Arts 199. Advanced work at the School of the Worcester Art Museum for majors in the practice of art.
STAFF OF THE MUSEUM SCHOOL

Courses in Music

During the academic year 1952-53 the following courses in Music have been given: 12, 15a, 15b.

Music 12. Introduction to Music. Beginning with the genesis of sonata-form, the course extends to the beginning of the twentieth century. The Vienna classicists, the romantic movement, the rise

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of impressionism, and the so-called modernists are treated in various types of music heard in concert-hall, opera house, and over the radio.

Through the year. M. W. F., 10 and 11 (2 sections).

MR. H. E. JOHNSON

Music 13. The Opera. A course in the evolution of opera from Peri's *Dafne* to Berg's *Wozzeck.* A large repertory of major scores is studied with such historical and literary backgrounds as may conveniently be applied.

Elective for sophomores, juniors, and seniors.

Through the year. Omitted 1952-53. MR. H. E. JOHNSON

Music 14a. The Life and Works of Beethoven. A formal and stylistic analysis of major works by music's most inspired prophet of the nineteenth century. There is intensive score-reading.

Music 12, or some previous interest in music is prerequisite.

Half course, first semester. MR. H. E. JOHNSON

Omitted 1952-53.

Music 15a. Music to 1750. A course in early music from its primitive stages, through the Middle Ages, and the productive 14th-16th centuries, culminating in masterworks of Bach and Handel. As in all music courses, emphasis is placed on forms and styles. Music 12 or some acquaintance with the literature of music is prerequisite.

Elective for sophomores, juniors, and seniors.

Half course. First semester. M., 2 - 4; F., 2. MR. H. E. JOHNSON

Music 15b. Twentieth Century Music. Beginning most conspicuously with Debussy, newer idioms are traced in this course to the present day through careful study of works by Ravel, Stravinsky, Hindemith, Copland, Berg, Schönberg, Harris and many others whose scores have significance for their time. Music 12 or some acquaintance with the literature of music is prerequisite.

Elective for sophomores, juniors, and seniors.

Half course. Second semester. To be arranged.

MR. H. E. JOHNSON

French

A description of the offerings in French and a list of courses in French will be found in the announcement of the Department of Romance Languages.

General Education

A statement concerning General Education and a description of the courses offered under this heading will be found immediately before the announcement of the Department of Biology in this section of the university catalog.

Geography

A complete statement of the organization and special requirements in the Graduate School of Geography will be found in an earlier section of this catalog under the heading The Graduate School of Geography.

UNDERGRADUATE PROGRAMS

Undergraduates planning to major in geography or to enter graduate work in geography are urged to consult the geography staff early in their undergraduate courses, to plan suitable programs including essential courses in related fields.

Majors in geography are required to take seven year-courses, or the equivalent, in geography and related fields. At least four, and not more than five of these courses must be in geography.

Geography 10, Principles of Geography, is usually taken in the freshman year (or as early as possible after the major subject is chosen to be geography). One or two of the following courses may be taken during the sophomore year: Geography 12a—Introduction to Climatology; Geography 16, Economic Geography; Geography

191, Cartography. Courses in geography, such as 18, Geography of New England, or 25, Conservation of Natural Resources, or regional courses should not be undertaken until the junior or senior years. Juniors of superior standing and seniors may be accepted, by special permission, to take number "2" geography courses, such as 27a Human Geography; 27b Cultural Geography; 201, Political Geography; 20b, Geography in Education (primarily for those expecting to teach); 282a, Geography of North America; 283b, Geography of South America; 285a, Geography of Europe. A non-credit seminar is conducted for all seniors who are majoring in geography.

COURSES IN FIELDS RELATED TO GEOGRAPHY

Students majoring in geography should plan early to take the required courses in other fields in order to possess the prerequisites for admission to advanced related courses in their junior and senior years to parallel the courses in their geography program.

Subjects in Group A, which are strongly recommended by the staff of the Department of Geography, are geology and biology. However, where special interest is expressed in physics, chemistry, psychology, or mathematics the student's program can be planned to include these subjects.

Related fields may be found listed under Group B. General Education 14 is recommended for the freshman year. Courses recommended for the sophomore year are: Sociology 11, Economics 11, Government 15, History 12. More advanced work in the fields of sociology, international relations, psychology and philosophy will depend largely upon the individual student's interests and desires.

"HONORS WORK" AND COMPREHENSIVE EXAMINATIONS

The Clark University Graduate School of Geography offers opportunity to properly qualified students for advanced training in geography. The staff, composed of specialists in their various fields of geography offer regular courses in instruction and direct advanced students in research work. Hence, a junior or senior pursuing an "honors program" in geography is afforded an opportunity to associate with other students in the Graduate School of Geography. For example, a superior student, after petitioning and receiving approval of the College Board and the Secretary of the Graduate Board, may undertake Geography 391, Advanced Cartography; 314, Physiography of the Western Hemisphere; 33 (a), Soils; and 34, Land Use; 32, Climatology; 36, Problems of Economic Geography; and some graduate regional courses. On rare occasions an undergraduate student has been invited to participate in the Fall Field Camp of the Graduate School.

Independent research projects may be undertaken with the adviser in constant surveillance. This research work may be in the fields of human geography, physiography, geography in education, economic geography, land utilization, cartography and regional geography. Such research work must be completed within the semester in which it is started, or proof advanced that the study warrants more time. The staff also conducts an oral examination of at least one hour's length to ascertain the achievement of an "honors student".

A seminar, required of all seniors who are majoring in geography, is established to explore problems relative to the comprehensive examinations.

Courses in Geography

The following courses were given in 1952-53.

10, 12a, 20b, 283a and b	Mr. Warman
36, 361	Mr. Murphy
285b, 32, 300	Mr. Van Valkenburg
18a, 282b, 315, *Map Interpretation*	Mr. Lougee
16, 33a and b, 34	Mr. Higbee
191, 291	Mr. Burnham
37a, 285a	Mr. Boesch
30. *Seminar*	Staff
399a. *Field Studies*	Staff
29	Mr. Warman and Mr. Van Valkenburg

1. PRIMARILY FOR UNDERGRADUATES

10. *Principles of Geography.* An introductory course dealing primarily with the physical phases of geography and the application of the principles of geography to the study of selected regions throughout the world. Juniors and seniors admitted only by special permission.

Open to freshmen.

Through the year. M. W. F., 10. Mr. Warman

12a. *Introduction to Climatology.* Elements of meteorology and climatology with practical exercises. Emphasis on most recent theories; explanation of distribution of types of climate and weather.

Prerequisites: Geography 10 or equivalent.

Half course. First semester. Tu. Th. S., 8. MR. WARMAN

16. *Economic Geography.* The geography of the world's mineral, plant and soil resources with special reference to problems of use and conservation.

Prerequisite: Geography 10 or Economics 11, or equivalent.

Through the year. M. W. F., 11. MR. HIGBEE

18a. *Geography of New England.* A field and lecture course with special emphasis on Worcester first, then New England. Class meetings begin about the middle of October, following the field camp. Because of the late beginning, three special week-end programs of three hours each of laboratory work in the field, with carefully prepared reports of each, are required.

Prerequisites: Geography 10 and Geology 12, or equivalent.

Half course. First semester. M. W. F., 9. MR. LOUGEE

191. *Cartography and Graphics.* Preparation of maps, graphs, charts, and block drawings. Since space is limited the instructor should be conferred with upon registration.

Through the year. M., 3 - 5; W., 12. MR. BURNHAM

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

20b. *Geography in Education.* A survey of geography in the present-day American school system, designed to meet the needs of those expecting to teach geography.

This class meets in the late afternoon for the convenience of public and private school teachers.

Half course. Second semester. W., 4 - 6. MR. WARMAN

25. *Conservation of Natural Resources.* A survey of natural resources including a study of ways and means of insuring wise utilization of essential or strategic resources.

Through the year. M. W. F., 10. MR. HIGBEE

Omitted 1952-53. To be omitted 1953-54.

29. *Presentation Techniques of Geographic Material.* A methods course for graduate students who plan to teach on secondary, college, and university level. Non-credit course.

Hours to be arranged. MR. VAN VALKENBURG AND MR. WARMAN

201. *Political Geography.* A study of major political problems of the world as related to geographic factors. Application of principles to international relations of selected regions.
Through the year. Tu. Th. S., 10. MR. VAN VALKENBURG
Omitted 1952-53.

282b. *Geography of North America.* A systematic regional treatment of the physical, economic and cultural geography of North America.
Half course. Second semester. M. W. F., 9. MR. LOUGEE

283a. *Geography of Middle America.* Historical background of the republics and islands of the Caribbean; analysis of selected important regions; increasing importance of the Caribbean area in commercial and political relations; detailed study of large scale maps.
A third contact hour for undergraduates will be arranged.
Two hours per week. First semester. Tu. Th., 2. MR. WARMAN

283b. *Geography of South America.* Analysis of the major geographic regions; special geographic problems of Latin American governments; detailed study of topographic maps.
Three hours per week. Second semester. Tu. Th., S., 8.
MR. WARMAN

285a. *Geography of the Mediterranean.* An intensive study of the continent and detailed study of selected regions.
Half course. First semester. M. W. F., 1. MR. BOESCH

285b. *Geography of Asia.* An intensive survey of the continent region by region.
Half course. Second semester. M. W. F., 1.
MR. VAN VALKENBURG

291. *Cartography and Graphics.*
Through the year. Hours to be arranged. MR. BURNHAM

298b. *Map and Aerial Photograph Interpretation.*
Second semester. Th., 2-4. MR. BRUNNSCHWEILER

3. PRIMARILY FOR GRADUATE STUDENTS

30. *Seminar.* Required of all graduate students.
Hours to be arranged. THE STAFF

32. *Regional Climatology.* A study of the climates of the world by major regional examples.
Two hours, through the year. M. W., 8. MR. VAN VALKENBURG
Given in second semester only, 1952-53.

33a. *Soils Geography.* A review of the development and character of soils, their distribution and economic significance, in the light of their geographical relationships.
Two hours. First semester. M. W., 9. MR. HIGBEE

33b. *Biogeography.* Geographical significance of character, function, distribution, and relationships of plant and animal forms and societies in their adjustments to environment.
Two hours. Second semester. M. W., 9. MR. HIGBEE
Omitted 1952-53.

34. *Land Utilization and Planning.* An outline of relationships that physical and cultural factors bear to purpose and pattern of land uses, conservation of land resources, and basic elements of land planning.
Two hours. Through the year. W., 2 - 4.
MR. HIGBEE, first semester
MR. BRUNNSCHWEILER, second semester

36. *Problems in Economic Geography.* An advanced study, emphasizing the various research fields of economic geography. Research methods and techniques in mining, agriculture, manufacturing and transportation are considered in detail.
Two hours, through the year. M. W., 10. MR. MURPHY

37a. *Human Geography.* A study of the influence and effect of location, area, relief, coastline, drainage systems, climate, and other geographic factors, separately, and in their mutual interaction upon the economic, social and political development of peoples and states.
Half course. First semester. M. W. Th., 8. MR. BOESCH

(37a and 37b should be taken in the same year.)

37b. *Cultural Geography.* A summary of the role that geographic factors have played in the evolution of races and cultures, artifacts and institutions.
Half course. Second semester. Hours to be arranged.
Omitted 1952-53.

39. *Historical Background of Geography.* A series of lectures on European and American phases.
Hours to be arranged. THE STAFF
Omitted 1952-53.

300. *Ph.D. Seminar.* Hours to be arranged.
MR. VAN VALKENBURG

311b. *Oceanography.* The study of the Oceans from the standpoint of the great basins, their inherent characteristics and their economic worth. Non-credit course.
Hours to be arranged.
Omitted 1952-53.

314. *Regional Physiography of Western Hemisphere.* A study of selected areas within the major physiographic regions. Laboratory interpretation of maps and aerial photographs.
Two hours of lecture and two hours of laboratory weekly.
Through the year. Tu. Th., 9. Mr. Lougee
Offered in alternate years. To be offered 1953-54.

315. *Regional Physiography of the Eastern Hemisphere.* A study of selected areas within the major physiographic regions. Laboratory interpretation of maps and aerial photographs.
Two hours of lectures and two hours of laboratory weekly.
Through the year. Tu. Th., 9. Mr. Lougee
Offered in alternate years. To be omitted 1953-54.

361. *Urban Geography.* The modern city from the viewpoint of geography. Particular emphasis is placed on the American city.
Two hours. Through the year. Tu. Th., 11. Mr. Murphy

385. *Geography of Eurasia.* Intensive survey of the continent and detailed study of selected regions.
Through the year. M. W., 2. Mr. Van Valkenburg
Omitted 1952-53. See courses 285a and b.

387b. *Geography of the Pacific Area.* A regional treatment of the human geography of the islands of the Pacific.
Offered when demand warrants. Mr. Murphy
Omitted 1952-53.

391. *Cartographic Presentation of the Geographical Landscape.*
Through the year. F., 2:30 to 4:30. Mr. Raisz
Omitted 1952-53.

399a. *Field Methods and Studies.* Required of every graduate student.
First three weeks of every year. The Staff

RESEARCH COURSES

(Under direction of proper staff members)

200. *Geography in Education*

310. *Regional Physiography*

320. *Climatology*

330. *Soils Geography*

340. *Biogeography*

350. *Agricultural Geography or Land Utilization*

360. *Economic Geography*

360b. *Urban Geography*

370. *Human Geography and Demography*

380. *Regional Geography*

390. *Political Geography*

Department of Geology

PROFESSOR LITTLE

During the academic year 1952-53 courses 12, 125a and 125b were given.

1. PRIMARILY FOR UNDERGRADUATES

12. *General Geology.* A course dealing with the origin of scenery, the classification and interpretation of rocks, the structure of the earth, the geography of the past, and the evolution of life.

Three recitations and one laboratory period at University or in field weekly. Attendance on one program of laboratory work in the field lasting two to four days is required.
Indivisible course.
Through the year. M. W. F., 8; Th. 2. MR. LITTLE

121a. *Crystallography, Mineralogy, and Blowpipe Analysis.* An elementary course on the identification of minerals by their geometrical, physical, and chemical properties. General geology is not a prerequisite for this course.
Half course. First semester. Two afternoon meetings weekly.
Omitted 1952-53. MR. LITTLE

122b. *Economic Geology.* A course dealing primarily with the origin of the deposits of useful minerals with some reference to their more important occurrences throughout the world. Elementary chemistry and geology provide a desirable background for this course.

Geology 121 is a prerequisite.

Half course. Second semester. Two afternoon meetings weekly. Omitted 1952-53. MR. LITTLE

125a. *Invertebrate Paleontology.* An elementary course in the description, classification, and identification of invertebrate fossils. Some study of their phylogenetic relationships will also be introduced.

Half course. First semester. Two afternoon meetings weekly. MR. LITTLE

125b. *Invertebrate Paleontology.* Continued.

Half course. Second semester. Two afternoon meetings weekly. MR. LITTLE

Department of German

PROFESSOR ARNDT, ASSISTANT PROFESSOR EDWARDS, MR. BEERBAUM

REASONS FOR THE STUDY OF GERMAN

Nescire quid antea quam natus sis acciderit, id semper est esse puerum.
Cicero (106-43 B.C.)

Not to know what came to pass before you were born, is always to remain a child.

Wer nicht von dreytausend Jahren
Sich weiss Rechenschaft zu geben,
Bleib im Dunkeln unerfahren,
Mag von Tag zu Tage leben.
Goethe (1749-1832)

Whoever cannot account to himself for 3000 years of time, let him live from day to day, an inexperienced man groping in the dark.

Many centuries of a carefully fostered tradition of study, meditation, and research for the advancement of human learning have made the German language a great storehouse of information for almost all branches of human knowledge, and the soul of one of the greatest of Western cultures. For the intellectually curious American of our time, whether he plans a career as scientist, philosopher, theologian, professional soldier, technician, educator or public servant, the study of German will provide an almost indispensable insight into the intellectual, psychic, religious, political and economic life, especially of East and West Germany, Austria, and Switzerland, the crucial areas of past, present, and future international conflicts, and the home of thousands of American soldiers since almost a decade. As a command of the German language was considered one of the marks of an educated man in the time of the first flowering of New England, so it remains a most important study in our internationally far more complicated contemporary world.

DEPARTMENTAL OBJECTIVES

Out of an awareness of the important position of German areas for our country in peace or war, the Department of German offers a program of courses having the fourfold objective; 1, facility in the use of the German language (10, 11, 12, 13, 132); 2, a comprehension of the outstanding cultural epochs in German history (141); 3, an integrated knowledge of the major German writers and thinkers (152, 153, 162); 4, an understanding of American and German relations in the past and present (200). Concentration in German as the mother tongue of the Central European geographical areas, provides an indispensable background for an intelligent understanding of American interests in Europe, for work in international relations, and in most scientific fields.

COMPREHENSIVE EXAMINATIONS AND MAJORS

For the time being the department will not require comprehensive examinations, but each major in the Department will be required to complete certain extra-curricular reading assignments given in a departmental reading list designed to aid the student in reaching the fourfold objective outlined above. All students wishing to major in German should see the head of the department before they register.

EXTRA-CURRICULAR ACTIVITIES

The department sponsors the following organizations:

The Germanic Society, an organization of students which provides an informal meeting ground for all those interested in the German language and culture. Its programs are regularly announced on the bulletin board and in the student newspaper.

Delta Phi Alpha, a chapter of the national honorary German fraternity. Outstanding students of German who have demonstrated their interest in the German language and culture may be invited to become members of the fraternity upon the nomination of the department.

Courses in German

During the academic year 1952-53 the following courses were given: 10a, 10b, 11, 12, 13, 132, 141, 152, 162a, 200.

10a. *Introductory German.* A basic course for beginners meeting six hours a week through the first semester. It covers the material of German 11 in one semester and is offered for students wishing to major in German or desiring to complete the language requirement in German in the first semesters of college. Approval of head of the department is required before registration.
First semester. M. Tu. W. Th. F. S., 10. THE STAFF

10b. *Intermediate German.* This course meets six hours a week through the second semester and in this time covers the material of German 12. It is offered for potential majors in German or for students wishing to complete the language requirement in German in the early semesters of college. Approval of head of the department is required before registration.
Second semester. M. Tu. W. Th. F. S., 10. THE STAFF

11. *Introductory German.* The regular first year course in German meeting three hours a week through the academic year. Study of pronunciation, vocabulary, elements of grammar, composition, and reading of suitable modern German prose.
Indivisible course.
Through the year. M. W. F., 8 and 10. THE STAFF

12. *Intermediate German.* The regular second year course in German meeting three hours a week through the academic year. Review of first year grammar, translation from and into German, exercises in written and oral composition, reading of modern German prose.
Prerequisite: German 11 or two years of high school German.
Indivisible course.
Through the year. M. W. F., 9 and Tu. Th. S., 10. THE STAFF

13. *Advanced German.* The regular third year course in German meeting three hours a week through the academic year. This course completes the undergraduate language requirement in German. In the first semester: reading of advanced German prose. In the second semester students will be introduced to the reading of

contemporary scientific and literary German journals and newspapers.

Prerequisites: German 10b or 12.

Through the year. M. W. F., 11 and Tu. Th. S., 9. The Staff

132. *Advanced Grammar and Composition.* Special course for majors in German and advanced non-majors. Advanced grammar, constant practice in writing German compositions and letters, study of modern prose and continued practice in the oral and written use of the language. May be offered to complete language requirement in German.

Prerequisites: German 10b or 12.

Indivisible course.

Through the year. M. W. F., 11. Mr. Beerbaum

141. *Germanic Civilization.* An illustrated lecture course in English on the literature, history, and the fine arts of the German lands from the Holy Roman Empire to the present day, with special stress laid upon the Reformation, the Age of Enlightenment and the Classical Period.

Through the year. M. W. F., 12. Mr. Edwards

152. *German Literature I.* A survey of German literary movements from the earliest times to the end of the Classical Period.

Through the year. M. W. F., 9. Mr. Arndt

Alternates with course 153. To be omitted 1953-54.

153. *German Literature II.* A survey of German literary movements from the beginning of the Romantic Period to the present.

Through the year. Three hours a week. Mr. Arndt

Alternates with course 152. To be offered 1953-54.

162a. *Faust.* The work of the course centers around Goethe's *Faust* (both parts) as the highest poetic development of the Faust legend, but it also studies the developments of the Faust theme before and after Goethe.

Half course. First semester. M. W. F., 1. Mr. Arndt

200. *German Seminar.* For German majors in their senior year. The work of the seminar will vary from year to year according to the needs of the students.

Through the year. Three hours a week. Mr. Arndt

COURSES NOT REGULARLY OFFERED

123. *Conversational German.*

142. *German Classics in Translation.*

161a. *Lyric Poetry.* A survey of German lyric poetry.

Health Education for Undergraduate Women

Hygiene. A study of the basic principles of physiology and anatomy and the principles of healthful living which will aid the student in developing attitudes and habits necessary for happiness and service in personal, family, and community life.

A required course for students in the Women's College, offered each academic year.

A non-credit course. First semester. Th., 12 - 1. Miss Hughes

Department of History and International Relations

Professor Lee,* Professor Jordan, Associate Professor Hayden, Associate Professor Campbell, Assistant Professor Cohen, Assistant Professor Raeff,† Mr. Osgood

UNDERGRADUATE WORK

In its undergraduate program the department gives basic courses in the fields of American, European, and British history, American and European government, and international relations. It offers departmental majors in history or government, and participates in the interdepartmental major programs; International Relations, American Civilization, and English History and Literature.

General Education 14 must be taken as early as possible by all majors in the department. Other courses primarily for undergraduates may be elected by non-majors who have not previously taken G.E. 14; and courses for advanced and graduate students may be taken by non-majors with the permission of the instructor if in his judgment the student has an adequate background for the course. Majors will normally take Economics 11 as well as G.E. 14 before the end of the sophomore year. Further elections in this and related departments are determined by the major's special interests, but are expected to include at least two upper class (2) courses in this department. In addition History 20 is required of all senior majors as partial preparation for the comprehensive examinations given by the department in accordance with the program voted by the faculty.

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*Absent on leave, second semester, 1952-53.

†Absent on leave, 1952-53.

GRADUATE WORK

The distinctive feature of the graduate work is the emphasis laid upon individual instruction and guidance by means of informal conferences between instructor and student, small classes, and seminars. The principal fields of graduate study are American, English and European history and politics, modern diplomacy, and the international relations of the United States, Europe, the British Empire and the Far East.

The program for the degree of Master of Arts is worked out individually with each student. All are required to take the departmental seminar (History 30). For general requirements, see the announcement of the Graduate School.

For the doctorate, a candidate must present six fields of study, two of which are normally written off by approved courses or by written examinations, while four are tested in the preliminary oral examination. The doctoral dissertation is written in one of the six fields, designated as the special field. The final doctoral examination covers both the dissertation and the special field.

Reading courses are offered to meet the wants of individual students who need work which is not presented in regularly scheduled courses. Thesis courses provide guidance for those preparing theses or dissertations. These may be semester courses or year courses.

Attention is called to related work offered in the fields of geography and economics from which minor fields for both the master's and the doctor's degrees may be chosen. Note also the announcement of the Division of International Affairs.

Courses in History

During the academic year 1952-53 the following courses were given: General Education 14, History 12, 20, 205b, 22a, 210a, 230, 232, 281b, 30, 314a, 331.

1. PRIMARILY FOR UNDERGRADUATES

General Education 14. Europe and the United States since 1500. For a complete description of this course, see *General Education.*
Required of all majors in the department.
Through the year. Tu. Th. S., 9.

12. *History of England.* Dealing primarily with British history since the fifteenth century this course forms a background for the study of American history and English literature.
Through the year. Tu. Th. S., 8. MR. JORDAN
Offered in alternate years. To be omitted 1953-54.

131. *Introduction to United States History.* A survey from the age of discovery to the present, with emphasis upon political and economic developments.
Through the year. M. W. F., 10. MR. CAMPBELL
Offered in alternate years. Omitted 1952-53.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

20. *Senior Conference.* Required of all seniors as part of their preparation for the comprehensive examinations. A list of required readings forms the basis for discussion which is intended to correlate and review the fields of history and government.
Half course, through the year. Hours to be arranged. THE STAFF

205a. *Introduction to Political Philosophy.* A study of the main trends of Western political thought with reference to their underlying social, political and economic realities.
Half course. First semester. Tu. Th. S., 10. MR. JORDAN
Offered in alternate years. Omitted 1952-53.

205b. *Recent Political Thought.* The conflicting ideologies of our time in their development since the French Revolution. Marxism, Fascism, and Nazism will be analyzed with especial reference to their challenge to liberal democracy.
Half course. Second semester. Tu. Th., 2 - 3:30. MR. JORDAN
Offered in alternate years. To be omitted 1953-54.

21. *Foundations of Modern Europe.* Following an introductory survey of medieval history, the course will emphasize the Renaissance and Reformation to the second half of the 16th century.

Through the year. M. W. F., 10. Mr. Lee and Mr. Raeff
Offered in alternate years. Omitted 1952-53.

210a. *Europe, 1648-1830.* The development of the modern European states after the Peace of Westphalia with emphasis upon the background, course, and consequences of the French Revolution.

Half course. First semester. Tu. Th. S., 10. Mr. Lee
Offered in alternate years. To be omitted 1953-54.

211. *Europe Since 1830.* The development of the major European nations with special emphasis on the period from 1870 to the present.

Through the year. Tu. Th. S., 11. Mr. Lee
Offered in alternate years. Omitted 1952-53.

22a. *Tudor and Stuart England.* A survey of the period from 1485 to 1688 with particular attention to the social backgrounds of English literature and to the conditions leading to colonization of America.

Half course. First semester. Tu. Th., 2 - 3:30. Mr. Jordan
To be omitted 1953-54.

221. *England Since 1760.* A general course, stressing the political, economic and social development of the modern commonwealth.

Through the year. Tu. Th. S., 8. Mr. Jordan
Omitted 1952-53.

225. *History of the British Empire.* In the second semester the course will deal with developments and problems since 1900.

Through the year. Tu. Th. S., 10. Mr. Jordan
Offered in alternate years. Omitted 1952-53.

23a. *American Colonial History to 1776.* This will include the European backgrounds of American history with particular reference to England, and the political, economic, and social development of the colonies.

Half course. First semester.
Omitted 1952-53.

230. *Social and Intellectual History of the United States.* Beginning with a brief survey of the European background of American ideas and institutions, this course deals with the main currents in American thought and society from colonial times to the present.
Through the year. Tu. Th. S., 11. MR. CAMPBELL
Offered in alternate years. To be omitted 1953-54.

Economics 231. Economic History of the United States.
MR. MAXWELL AND MR. CAMPBELL
Offered in alternate years. Omitted 1952-53.

232. *United States Constitutional History and Law.* A survey of the major developments in our constitutional system and law with emphasis in the second semester upon contemporary problems.
Prerequisite: History 131 or Government 15.
Through the year. M. W. F., 11. MR. CAMPBELL AND MR. COHEN
Offered in alternate years. To be omitted 1953-54.

234a. *American Diplomatic History.* The history of the foreign relations of the United States from 1783 to about 1941.
Half course. First semester. M. W. F., 9. MR. HAYDEN
Offered in alternate years. Omitted 1952-53.

235b. *The United States in the Twentieth Century.* A study of the chief influences in American civilization since 1900, with special attention to the emergence of current social and economic problems.
Half course. MR. CAMPBELL
Omitted 1952-53.

274b. *The Modern Far East.* The course deals primarily with international relations in the region since 1895.
Half course. Second semester. MR. HAYDEN
Offered in alternate years. Omitted 1952-53.

281. *History of Russia.* From the origins of the Russian state to the present. Special attention is given to the development of Russian society and the ideological preparation of the Revolution. The period since Peter the Great is treated in the second semester.
Through the year. M. W. F., 10. MR. OSGOOD
Offered in alternate years. Given in the second semester only 1952-53.

Honors Conference. A course for honors candidates, in which emphasis is put upon student reports and discussion.
Through the year. Hours to be arranged. THE STAFF

3. PRIMARILY FOR GRADUATE STUDENTS

30. *Department Seminar.* Introduction to bibliography and methods of research, and discussion of research problems being investigated by graduate students and faculty.

Required of all first-year graduate students in the department.
Half course. First semester. W., 4 - 6. Mr. Lee and The Staff

311b. *European Intellectual History.* A study of currents of thought in the 19th century.

Half course. Second semester. Mr. Jordan and Mr. Raeff
Omitted 1952-53.

314a. *European International Relations, 1870-1918.* A study of the diplomatic history of Europe from the Franco-Prussian War to the First World War.

Half course. First semester. Th., 3 - 5. Mr. Lee

321a. *England in the Twentieth Century.* The development of the United Kingdom from the time of its greatest power to its present struggle to maintain a world position.

Half course. First semester. Mr. Jordan
Omitted 1952-53.

331. *Problems in the History of the United States since 1900.* An analysis of the fundamental factors making for change in American economic and political thought at the turn of the century is followed by an intensive study of political developments.

Through the year. Hours to be arranged. Mr. Campbell

GRADUATE READING AND THESIS COURSES

31. *Reading*
310. *Thesis* } *In the History and International Relations of Europe.* Mr. Lee

32. *Reading*
320. *Thesis* } *In the History and International Relations of England and the British Empire.* Mr. Jordan

33. *Reading*
330. *Thesis* } *In the History of the United States.* Mr. Campbell

38. *Reading*
380. *Thesis* } *In Early Modern and Slavic History.* Mr. Raeff

Courses in Government

During the academic year 1952-53, the following courses were given: Government 15, 24, 240, 241, 251a, 252a, 351.

1. PRIMARILY FOR UNDERGRADUATES

15. *Introduction to American Government.* A short survey of the theories of the origin and theory of the state is followed by a study of the functioning of the government of the United States with emphasis on contemporary problems of the federal government.
Through the year. M. W. F., 12. Mr. Cohen

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

24. *International Relations.* A survey of the course of world politics since 1914, with emphasis on the shifting patterns of power and the rise of new nations and revolutionary doctrines. Special attention is given in the second semester to the Second World War and its consequences.
Through the year. M. W. F., 11. Mr. Hayden

240. *Seminar in International Relations.* Group study of certain problems in contemporary affairs. Required of seniors in the international relations major; not open as an elective except to properly qualified graduate students with the instructor's permission.
Through the year. Tu., 3 - 5, and conferences. Mr. Hayden

241. *International Law and Organization.* First semester: the historic principles of international law and their application in the modern world. Second semester: an examination of the institutions created to deal with problems of commerce, social welfare, and collective security on an international basis.
Through the year. M. W. F., 9. Mr. Hayden
Offered in alternate years. To be omitted 1953-54.

25b. *Comparative Government.* The governments and politics of Great Britain and the major European powers.
Half course. Second semester. M. W. F., 10.
Offered in alternate years. Omitted 1952-53.

251a. *American Political Parties.* A study of the functioning of American party organizations, pressure groups, and the electorate in American politics. Emphasis is placed upon current problems and trends in the field.

Half course. First semester. M. W. F., 10. Mr. Cohen
Offered in alternate years. To be omitted 1953-54.

History 232. United States Constitutional History and Law. See courses in History.

252a. *Introduction to Public Administration.* An introductory examination of the role of administration in modern government, including problems of personnel administration, fiscal management, administrative regulation and government organization.

Half course. First semester. M. W. F., 10. Mr. Cohen
Offered in alternate years. Omitted 1952-53.

3. PRIMARILY FOR GRADUATE STUDENTS

341. *International Relations Seminar.* A study of contemporary problems by means of student research and reports.

Through the year. Hours to be arranged. Mr. Hayden
Omitted 1952-53.

351. *Problems in American Government.* A study primarily by means of student research and discussion of selected contemporary problems in American government, including the legislative process, public opinion, and political parties.

Through the year. Hours to be arranged. Mr. Cohen

GRADUATE READING AND THESIS COURSES

34.	*Reading*	*In International Relations.*	Mr. Hayden
340.	*Thesis*		
35.	*Reading*	*In American and Comparative Government and Politics.*	Mr. Cohen
350.	*Thesis*		

Interdepartmental Majors

To provide undergraduate "majors" in certain fields which are intrinsically worthwhile culturally or professionally but which cross departmental boundaries, the Faculty has authorized a group of "interdepartmental majors".

At present three programs are offered under this plan:

I. International Relations
II. English History and Literature
III. American Civilization

A description of these majors will be found at the beginning of the section "Departments and Courses" in this catalog, immediately after the introductory statements.

International Relations

See the announcement of the Department of History and International Relations and also the announcement of the Graduate Division of International Affairs.

An "interdepartmental major" in the field of International Relations is offered to candidates for the degree of Bachelor of Arts. The program required for the completion of this major is fully outlined under the earlier heading *Interdepartmental Majors.*

Department of Mathematics

Professor Bumer, Assistant Professor Stubbe, Assistant Professor Gorenstein

The department of mathematics offers courses leading to an undergraduate major in mathematics, courses necessary for the study of the physical sciences and courses for the student who wishes to learn about the fundamental concepts of mathematics primarily for their cultural value. Some of the courses offered are for advanced undergraduates and graduate students.

Courses 11, 12, 13 and 214 form the basis of a major in mathematics and are important for the study of the physical sciences. A major in mathematics normally includes one course in mathematics in addition to the four courses above and two courses in an allied field of study such as physics, chemistry or philosophy.

Courses in Mathematics

During the academic year 1952-53 the following courses were given: General Education 110, Mathematics 11, 12, 13, 214, 19 and Business Administration 13.

1. PRIMARILY FOR UNDERGRADUATES

11. *Freshman Mathematics.* Course 11 has for prerequisites one course in algebra and one course in plane geometry taken in the secondary schools, although at least three courses in secondary school mathematics are advisable. Careful attention is given to fundamental concepts and to the development of useful techniques. Topics in algebra, trigonometry and analytic geometry are introduced.

A qualified student may request permission to take an attainment test in the subject matter of course 11. If he passes such a test he may enter course 12.

Through the year, M. W. F., 9; Tu. Th. S., 10 and 11.

Mr. Bumer, Mr. Stubbe, Mr. Gorenstein

12. *Calculus.* Course 12 introduces both the differential and integral calculus and is essential to further work in mathematics as well as to work in the natural sciences.

Prerequisite: Course 11 or its equivalent.

Through the year. M. W. F., 10 and 11. MR. STUBBE

13. *Intermediate Calculus and Differential Equations.* This course includes a discussion of geometric and physical applications of integration; sequences and series; partial differentiation and double integration. Also, ordinary differential equations, with emphasis on the principal types of first and second order equations. Applications to geometry, physics, chemistry, and mechanics are stressed.

Prerequisite: Course 12.

Through the year. Tu. Th. S., 9. MR. GORENSTEIN

17. *Mathematical Statistics.* Topics discussed include frequency distributions, moments, tests of significance, correlation, theory of large and small sampling. Although numerous applied problems are worked out in detail by the students, emphasis is placed on the mathematical theory.

Prerequisite: Course 12.

Through the year. M. W. F., 9. MR. BUMER

Offered in alternate years. To be offered 1953-54.

19. *Solid Analytic Geometry and Projective Geometry.* Topics of three-dimensional analytic geometry discussed are: planes and lines, matrices, determinants, transformation of coordinates and quadric surfaces. Topics of projective geometry studied are: postulates for projective geometry, homogeneous coordinates, principle of duality, cross ratio, projective transformations and projective theory of curves of the second degree.

Prerequisite: Course 12.

Through the year. M. W. F., 9. MR. GORENSTEIN

Offered in alternate years. To be omitted 1953-54.

General Education 110. Fundamental Concepts of Elementary Mathematics.

For description of this course, see courses listed under General Education.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

214. *Advanced Calculus.* The following topics are among those studied: complex numbers, partial differentiation, infinite series, vector analysis, multiple and line integrals. Some emphasis is placed on the uses to which the topics can be put in the sciences and engineering.
Prerequisite: Course 12.
Through the year. Tu. Th. S., 11. Mr. Bumer

215. *Modern Algebra.* The course affords an introduction to modern algebraic systems: groups, integral domains, rings, fields, abstract vector spaces, matrices and related topics. The emphasis is on developing in the student the modern axiomatic point of view, with considerable attention given to the nature and construction of formal proof.
Prerequisite: Course 12.
Through the year. M. W. F., 11. Mr. Gorenstein
Offered in alternate years. To be offered 1953-54.

216a. *Introduction to Complex Variables.* The course affords an introduction to analytic functions, line integrals, conformal mapping. Considerable attention is given to rigor and many examples are studied to illustrate applications.
Prerequisite or taken concurrently: Course 214.
Half course. First semester. M. W. F., 10. Mr. Bumer
Offered in alternate years. To be offered 1953-54.

216b. *Advanced Differential Equations.* Some partial differential equations of mathematical physics, Fourier Series and boundary value problems, systems of ordinary differential equations are studied.
Prerequisite: Course 13.
Half course. Second semester. M. W. F., 10. Mr. Bumer
Offered in alternate years. To be offered 1953-54.

218. *Introduction to Analysis.* The following topics are studied: the structure of the real number system, algebra of sets, cardinality, sequences and series and certain theorems concerning functions of a real variable. An introduction is made to the study of measure and the Lebesgue integral.
Prerequisite: Course 12.
Through the year. M. W. F., 12.
Offered in alternate years. Omitted 1952-53.

Department of Philosophy

Professor Jefferson, Assistant Professor Beck

The Department of Philosophy offers courses designed to broaden the student's perspective and help him trace the relations among the various fields of knowledge. These courses may also form the basis of a major in philosophy.

A major in this department consists of four courses in philosophy and three additional courses in related fields. The specific courses in related fields are determined in the light of the students' special interests.

Courses in Philosophy

During the academic year 1952-53 the following courses were given: 11a, 11b, 12, 13a, 14, 15b; also Education 290.

Philosophy 11a. Logic and Scientific Method. The principles of valid reasoning and inductive methods; the application of these principles and methods to the problems of the natural and social sciences, and the consideration of the relation between logic and problems of value.

Open to freshmen.

Half course. First semester. Tu. Th. S., 11. Mr. Beck

Philosophy 11b. Problems of Philosophy. The nature and method of philosophy. The application of philosophical method to contemporary personal and social problems. A detailed analysis of some typical problems in the various fields of philosophy.

Open to freshmen.

Half course. Second semester. Tu. Th. S., 11. Mr. Beck

Philosophy 12. History of Philosophy. The movements of philosophical thought from the early Greeks to the present day. First semester: Greek and Medieval Philosophy. Second semester: Modern Philosophy.

Not open to freshmen.

Divisible course, with consent of the instructor.

Three hours, through the year. Tu. Th. S., 9. Mr. Jefferson

Philosophy 13a. Problems of Ethics. A constructive study of important ethical theories. Designed to acquaint the student with the problems and scope of ethics, and to aid him in the formulation of an ethical outlook.

Open to juniors and seniors.

Half course. First semester. Tu. Th. S., 10. Mr. Beck

Philosophy 13b. Social Philosophy. The principles underlying social structure and functions. The examination of the goals, purposes, norms, and ideals of social process, and the relation of that process to the individual good.

Open to juniors and seniors.

Half course. Second semester. Tu. Th. S., 10. Mr. Beck
Omitted 1952-53.

Philosophy 14. Contemporary Philosophy. An intensive study of important thinkers representative of modern developments in philosophy, together with emphasis on the historical roots of their thought.

Prerequisite: One and one half courses in philosophy, including Philosophy 12; or permission from the instructor.

Divisible course.

Through the year. Tu. Th., 2. Mr. Beck

Philosophy 15b. Types of Religious Philosophy. The religious ideas and ideals of Western civilization and their embodiment in specific religious institutions.

Open to juniors and seniors.

Half course. Second semester. Tu. Th. S., 10.
Mr. Jefferson and Mr. Beck

See also *Education 290b, Philosophy of Education* in the announcement of the Department of Education.

Department of Physics

Professor Roope, Associate Professor Gunter

UNDERGRADUATE WORK

The department offers fundamental courses required in preparation for the study of chemistry, biology, meteorology and allied sciences, medicine, dentistry, engineering and science teaching, as well as courses leading to professional or graduate work in physics.

The requirement for a major in physics consists of Physics 11, two courses from Physics 15, 16, 17, 18, 124, either Physics 22 or 23, Mathematics 11 and 12, and Chemistry 11. In addition, electives in Physics, Mathematics and Chemistry are desirable. Students preparing for graduate work should also obtain a good reading knowledge of French and German while in college.

Physics 11 or its equivalent is the normal prerequisite for all other courses in the department. Courses numbered 15 or higher, except 17 and 124, require the use of calculus and should not be elected without consulting the instructor in charge. Courses 15 and 17 each require a limited amount of laboratory work to be done at the discretion of the instructor and at such times as will not interfere with regularly scheduled courses.

GRADUATE WORK

Students whose records are approved by the department may be admitted by the Graduate Board to work leading to the degree of Master of Arts.

Courses in Physics

During the academic year 1952-53 the following courses were given: 11, 17, 18a, 18b, 124, 22, 24 and 25; also General Education 10.

During the year 1953-54 the following undergraduate courses will be offered: 11, 15, 16, 17, 23 and General Education 10.

1. PRIMARILY FOR UNDERGRADUATES

General Education 10. An Introduction to Physical Science. For description of this course see courses listed under General Education.

11. *General Physics.* Mechanics, heat, electricity and magnetism, wave motion, sound, and light.
Indivisible course.
Open to freshmen.
Through the year. Tu. Th. S., 8; M. or Th., 2. MR. GUNTER

13. *History of Physics.* MR. ROOPE
Omitted 1952-53.

15. *Heat and Thermodynamics.* This course includes a study of thermometry, calorimetry, the thermal properties of matter in the solid, liquid and gaseous states, the laws of thermodynamics, and applications to a wide range of phenomena.
Prerequisites: Physics 11 and Mathematics 12.
Through the year. M. W. F., 11. MR. ROOPE
Omitted 1952-53.

16. *Optics.* The first semester is devoted to a study of the principles of geometrical optics and their application to various optical instruments, including ground and aerial cameras. The second semester is devoted to the principles and application of physical optics.
Prerequisites: Physics 11 and Mathematics 12 (may be taken concurrently).
Through the year. Tu. Th. S., 9. Tu. or Th., 2. MR. GUNTER
Omitted 1952-53.

17. *Introduction to Modern Physics.* An elementary treatment of physical experiment and theory of the past fifty years including the more recent atomic and nuclear developments.
Through the year. M. W. F., 9. MR. ROOPE

18a. *Theoretical Spectroscopy.* The origin of line and band spectra in both emission and absorption spectrophotometry is treated.
Prerequisites: Physics 11 and Mathematics 12 (may be taken concurrently). Physics 16 and 17 are desirable but not required.
Half course. First semester. Tu. Th. S., 9. MR. GUNTER

18b. *Experimental Spectroscopy.* The theory and applications of the optical and electrical instruments used in an experimental spectroscopy are discussed. The student will become familiar with the use of prism and grating spectrographs, micro-densitometers, interferometers, and their associated photographic and electrical techniques. The principles of spectrochemical analysis are included in this course.
Prerequisites: Physics 16 or Physics 18a, and Mathematics 12

(may be taken concurrently). Physics 17 is desirable but not required.

Half course. Second semester. Tu. 9; Tu. Th., 2. MR. GUNTER

124. *Fundamentals of Electronics.* This is a first course in electronics designed to give a broad, largely non-mathematical, background for the understanding of electron tubes and their associated circuits. The application of modern electronic devices to the fields of physics, chemistry, biology, meteorology, and navigation is discussed.

Prerequisite: Mathematics 11.

Through the year. Tu. Th. S., 10; Tu. or Th., 2. MR. GUNTER

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

22. *Theoretical Mechanics.*

Prerequisite: Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. M. W. F., 11. MR. ROOPE

23. *Electricity and Magnetism.* The fundamental laws of electric and magnetic circuits and fields are treated. The elements of electromagnetic wave propagation and their application to antenna design are included in this treatment.

Prerequisites: Physics 11 and Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. Tu. Th. S., 10; Tu. or Th., 2. MR. GUNTER

Omitted 1952-53.

24. *Advanced Electronics.* This course is a detailed theoretical study of certain electronic phenomena from a mathematical point of view.

Prerequisites: Physics 23 and Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. Tu. Th. S., 11. MR. GUNTER

25. *Honors Course.* Theoretical and/or experimental work in mechanics, thermodynamics, or nuclear physics. MR. ROOPE

26. *Honors Course.* Theoretical and/or experimental work in optics, electronics, or spectroscopy. MR. GUNTER

217. *Nuclear Physics.* MR. ROOPE

Omitted 1952-53.

3. PRIMARILY FOR GRADUATE STUDENTS

31. *Theoretical Physics.* Double course. MR. ROOPE

300. *Research in Experimental Physics.* THE STAFF

301. *Research in Theoretical Physics.* THE STAFF

Department of Psychology

PROFESSOR WERNER, PROFESSOR AFFILIATE WEINREB, ASSOCIATE PROFESSOR BELL, ASSOCIATE PROFESSOR WAPNER, ASSOCIATE PROFESSOR DEMBO, ASSOCIATE PROFESSOR AFFILIATE PHILLIPS, ASSISTANT PROFESSOR GWINN, INSTRUCTOR AFFILIATE LEVENTHAL, VISITING LECTURER ALPER, VISITING LECTURER KLEIN, VISITING LECTURER KOGAN, VISITING LECTURER OPLER, PSYCHIATRIC CONSULTANT CARTER.

The Psychological laboratories at Clark University were established by G. Stanley Hall immediately after the founding of the University, and constituted one of the first adequately appointed laboratories in this field in America. These laboratories increased rapidly in size and in research possibilities for experimental psychology, and have been remodeled in accordance with present needs. From the outset this research emphasis on experimental psychology was supplemented by work in child study, educational psychology, and mental hygiene. In recent years a comprehensive training program in clinical psychology has been added. Broad integrated training in psychology is stressed, with special concentration being provided in the areas of child and genetic, clinical, and general experimental psychology.

UNDERGRADUATE WORK

The undergraduate curriculum is designed to meet the needs of: (1) students majoring in psychology; (2) majors in related field; (3) students wishing an orientation to the field of psychology for general cultural development.

Psychology 11a and 11b are prerequisite to all subsequent courses, with the exception of Psychology 190b. Majors are required to take Psychology 11a, 11b, and Psychology 212. Students preparing for graduate work should obtain a reading knowledge of French and German.

GRADUATE WORK

Work is offered in the department leading to the degrees of Master of Arts and Doctor of Philosophy. In order to be admitted to the department for a graduate degree, the applicant must have a bachelor's degree based upon a distinguished college record.

Where the department feels that a student lacks the necessary undergraduate preparation in psychology and related fields, specific courses of study will be prescribed.

THE DEGREE OF MASTER OF ARTS. To qualify for the degree of Master of Arts in psychology the student must demonstrate competence in representative areas of psychology. The customary program is five courses, including experimental psychology, statistical methods, and three additional courses supplemented by the writing of a thesis in the area of special interest.

THE DEGREE OF DOCTOR OF PHILOSOPHY. Only students who give evidence of high scholastic attainments will be encouraged to proceed to the degree of Doctor of Philosophy. The obtaining of a Master of Arts degree does not automatically admit the student to the doctoral program. The general requirements for the doctor's degree, other than those for specialization in clinical psychology, include the following. The student is required to pass with distinction five courses during the first year of graduate study and a minimum of two courses during the second year of study. At the end of the second year he is required to demonstrate his competence in psychology by passing with distinction preliminary examinations in the field of psychology as a whole and in an area of specialization. At the present time examinations in the general field include history and systems of psychology, experimental psychology, genetic psychology, learning, normal and abnormal personality, and statistics. In addition, the student is required to demonstrate his ability to conduct independent research as evidenced by the presentation of an acceptable thesis. For formal thesis requirements and language requirements, see the general statement concerning advanced degrees in the section of this catalog headed "The Graduate School". At a final oral examination a student is required to defend his thesis and to show his competence in the general field of psychology and in his special area of concentration.

THE PROGRAM IN CLINICAL PSYCHOLOGY. The department offers a four-year program in clinical psychology leading to the degree of Doctor of Philosophy. For this degree the same standards of proficiency in the general field of psychology as mentioned above apply.

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In addition the student will be required to demonstrate mastery of the use of clinical methods. Provision is made for a wide variety of practical experiences in cooperating institutions, clinics, and agencies. V. A. and U. S. Public Health Service Training Stipends are available for outstanding students.

A minimum of one year of internship, or its equivalent, is included in this four-year program. Among the institutions and agencies cooperating in providing practicum and research facilities are: Bedford V. A. Hospital; Boston V. A. Hospital; Boston V. A. Mental Hygiene Clinic; Children's Medical Center, Boston; Clark University Psychological Clinic; Hartford V. A. Mental Hygiene Clinic; Judge Baker Guidance Center, Boston; Newington V. A. Mental Hygiene Clinic; Northampton V. A. Hospital; Worcester Boys' Club; Worcester Girls' Club; Worcester Youth Guidance Center; Worcester State Hospital; and certain schools. Internships may be arranged in other selected hospitals and clinics.

During the first two years the student will include in his program courses basic to a thorough understanding of psychology as well as specialized courses in clinical psychology. He will be required to take the regular preliminary examinations; in this case the examination in the area of specialization will be in clinical psychology.

Research for the dissertation should normally be started during the year of internship and be completed during the fourth year at the University.

Courses in Psychology

During the academic year 1952-53 the following courses in psychology were given: 11, 190b, 199a, 200b, 203a, 203b, 209, 212, 300, 303a, 303b, 305, 307, 315a, 316, 318, 328b, 331, 333, 336a, 339, 340, 349a, 350, 363b.

1. PRIMARILY FOR UNDERGRADUATES

11a. *General Psychology.* An introduction to the principles of human behavior.

Half course. First semester. Tu. Th. S., 10. Mr. Wapner

11b. *General Psychology.*
Prerequisite: Psychology 11a.
Half course. Second semester. Tu. Th. S., 10. Mr. Wapner

190b. *Applied and Industrial Psychology.* The application of psychological techniques to the problems of business and industry.
Prerequisite: Psychology 11a.
Half course. Second semester. To be arranged.

199a. *Learning and Motivation.* The role of learning and motivation in behavior.
Half course. First semester. Tu. Th. S., 10. MR. GWINN

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

200b. *Social Psychology.* The role of social factors in the behavior of individuals and of groups. Among the topics to be discussed are suggestion, attitudes, rumor, prejudice, leadership and public opinion polls.
Half course. Second semester. Tu. Th. S., 10. MR. GWINN

203a. *Personality Development.* A study of current theories of personality and analysis of maturational and cultural factors in its development.
Half course. First semester. M. W., 1 - 3:30. MR. BELL

203b. *The Abnormal Personality.* The course will be devoted to a study of the development of the abnormal personality and a survey of the major types of abnormal behavior.
Prerequisite: Psychology 172b.
Half course. First semester. M. W., 1 - 3:30. MR. BELL

209. *Developmental and Child Psychology.* A survey of the principles of development and the problems of child psychology.
Prerequisite: Psychology 11 plus one additional semester course in psychology.
Through the year. W. F., 9. A third hour to be arranged.
MR. WERNER

212. *Experimental Psychology.* A general survey of experimental psychology with the aim of acquainting the student with scientific methods and laboratory technique.
Through the year. Lecture: Tu. Th., 11.
Laboratory: Section A: Tu., 1:30 - 5.
Section B: Th., 1:30 - 5. MR. WAPNER

215b. *Physiological Psychology.* Physiological methods of investigating the mechanisms underlying psychological processes.
Half course. Second semester. Tu. Th. S., 10. MR. GWINN
Omitted 1952-53.

3. PRIMARILY FOR GRADUATE STUDENTS

300. *Genetic Psychology.* A seminar on the basic principles of genetic psychology.
Through the year. F., 2 - 4. MR. WERNER

301a. *Psychological Diagnosis of Children.* Introduction to problems and methods.
First semester. Tu., 2 - 4. MR. LEVENTHAL
Omitted 1952-53.

301b. *Diagnosis of Personality.* Introduction to the methods of personality diagnosis.
Second semester. M., 5:15 - 7:15. MR. BELL
Omitted 1952-53.

303a. *Diagnosis of Personality* (Advanced Course).
Prerequisite: Psychology 301a and 301b.
First semester. W., 3:30 - 5:30. MR. BELL

303b. *Theories of Psychotherapy.* A comparative study of basic theories of psychotherapy.
Prerequisite: Psychology 303a.
Second semester. W., 3 - 5. MR. BELL

305. *Advanced Experimental Psychology.* A study of experimental methodology and techniques. In the first semester attention will be given to problems of perception, and, in the second semester, to memory, concept formation and reasoning.
Through the year. Lecture: Th., 9 - 11. MR. WERNER
Laboratory: To be arranged. MR. WERNER AND MR. WAPNER

306b. *Psychological Diagnosis of Children,* advanced course. Special problems and case studies.
Second semester. Tu., 2 - 4. To be arranged
Omitted 1952-53.

307. *Participation in Psychological Clinic.*
Through the year. F., 9:30 - 11:30. MR. BELL, MR. CARTER, AND MR. LEVENTHAL

Education 313. Statistical Methods. The purpose of this course will be to give an understanding of and practice in the statistical methods most valuable in psychological research.
Through the year. Tu., 3:30 - 5:30. MR. JONES

315a. *Experimental Methodology and Design.* A consideration of general experimental methodology in psychology with special reference to the problems of research planning and experi-

mental design. Various fields will be drawn upon for illustrations.
First semester. W., 1:15 - 3:15. MR. WAPNER

316. *Deviant Behavior in Children.* Theories relevant to the understanding of behavior problems in children.
Through the year. Th., 2 - 4. MR. WEINREB

318. *Dynamics of Personality.* Emphasis will be placed on the dynamics common to both normal and abnormal manifestations of personality defenses. The first part of the course will consist of a consideration of normal personality development and personality theory. The latter part will be devoted to a survey of the main types of abnormal behavior, including psychoses, psychoneuroses, psychosomatic disorders, character disorders, hypnosis, and allied phenomena.
Through the year. First semester, Th., 1 - 3. Second semester, F., 4 - 6. MRS. ALPER, first semester
MR. PHILLIPS, second semester

328b. *Personality Dynamics, Advanced Course.* The implications of personality theory for clinical methodology and research.
Open only to third and fourth year graduate students.
Second semester. To be arranged. MR. KLEIN

330a. *Psychology of Language Behavior.* A seminar on basic problems pertinent to the experimental study of language.
Half course. First semester. F., 8 - 10 P.M. MR. WERNER
Omitted 1952-53.

331. *The Psychology of Learning.* Theoretical viewpoints and experiments in the field of learning.
Through the year. W., 10 - 12. MR. GWINN

333. *Personality Evaluation.* An advanced course in the integration of methods of personality diagnosis and case history materials.
Through the year. F., 4 - 6. MR. PHILLIPS

335b. *Social Psychology.* Topics to be considered in this course are: Opinion Research; Propaganda, Rumor; Group Dynamics; Orientation and Theoretical Problems in Social Psychology.
Second semester. Tu., 7:30 - 9:30 P.M. VISITING LECTURERS
Omitted 1952-53.

336a. *Social Anthropology.* A discussion of the relationships between anthropology and personality theory.
First semester. Alternate Saturdays, 11 - 1; 2 - 4. MR. OPLER

339. *History and Systems of Psychology.* The historical development of psychological methods, concepts and theories.
Through the year. Th., 4 - 6. MR. GWINN

340. *Departmental Colloquium.*
THE STAFF, GRADUATE STUDENTS AND VISITING LECTURERS

345. *Seminar in Current Psychological Literature.*
Through the year. Tu., 7 - 9. STAFF OF THE DEPARTMENT
Omitted 1952-53.

346b. *Current Literature in Perception and Cognition.*
Second semester. To be arranged.
Omitted 1952-53. MR. WERNER AND MR. WAPNER

349a. *Clinical Research Methodology.* A survey of current research methods in clinical psychology.
First semester. By arrangement. MR. PHILLIPS

350. *Research in Psychology.* Individual direction of students in their research projects. STAFF OF THE DEPARTMENT

FIELD WORK COURSES IN CLINICAL PSYCHOLOGY

(Hours to be arranged)

361a. *Required in Conjunction with 301a.* MR. LEVENTHAL
Omitted 1952-53.

361b. *Required in Conjunction with 301b.* MR. BELL
Omitted 1952-53.

363. *Required in Conjunction with 303.* MR. BELL
Through the year.

366b. *Required in Conjunction with 306b.*
Omitted 1952-53.

NON-CREDIT WORKSHOPS

1. *Advanced Workshop in Psychological Statistics.*
Selected problems in small sample theory.
Through the year. To be arranged. MR. KOGAN

2. *Workshops in Clinical Methodology.* VISITING LECTURERS

3. *Lectures on Physiological and Medical Aspects of Mind-Body Relationships.*
Omitted 1952-53. WORCESTER STATE HOSPITAL STAFF MEMBERS AND VISITING LECTURERS

Department of Romance Languages

ASSOCIATE PROFESSOR REID, ASSOCIATE PROFESSOR NICOL,
ASSISTANT PROFESSOR KING, MR. MACQUEEN

Courses offered in the languages and literatures of France, Spain, and Spanish America have been planned to provide:

1) an adequate foundation for graduate study or teaching either French or Spanish, or both;
2) a thorough reading knowledge of both languages, essential for carrying on advanced study in natural sciences, social sciences, and the humanities, and for fulfilling the language requirement for the degree of Bachelor of Arts;
3) a competent speaking knowledge of both languages.

A major in Romance languages must comprise:

1) four full courses to be chosen from the following:
    French 13, 114b, 123b, 125, 126
    Spanish 13, 114
    Romance Languages 124a
2) French 113 or the equivalent.
3) General Education 14, or the equivalent, normally to be completed by the end of the sophomore year.
4) at least one course, to be approved by the department, in non-Romance literature.
5) a satisfactory record in the senior comprehensive examination.

Students majoring in Romance languages are expected to acquire a thorough knowledge of either French or Spanish and are urged to acquire a competent knowledge of the other, both in language and in literature.

If at least two units of elementary Latin or elementary Greek have not been accepted for admission to college, a Romance language major must satisfy the classics requirement as prescribed under the heading "Major" in the statement of requirements for the degree of Bachelor of Arts.

Students intending to major in Romance languages should consult Mr. Reid.

A program leading to a degree "with honors in Romance languages" is available to qualified upperclassmen.

Courses in French

During the academic year 1952-53 the following courses in French were given: 11, 12, 13, 14, 114b and 126.

1. PRIMARILY FOR UNDERGRADUATES

11. *Elementary.* For beginners. The elements of grammar and pronunciation; carefully graded reading; exercises in speaking and writing simple French.
Indivisible course.
Open to freshmen.
Through the year. M. W. F., 10; Tu. Th. S., 10.
MR. MACQUEEN AND MR. NICOL

12. *Intermediate.* Review of grammar, exercises in composition and pronunciation, intensive and extensive reading in a variety of modern texts.
Prerequisite: French 11 or the equivalent, to be determined by a placement test.
Indivisible course.
Open to freshmen.
Through the year. M. W. F., 12; Tu. Th. S., 9. MR. MACQUEEN

NOTE: Courses 13 and 14, described below, are "third-year" language courses within the meaning of the foreign language requirement for the degree of Bachelor of Arts. Course 14 is offered to meet the needs of the general student; course 13 is designed primarily for the student with particular interest and aptitude for language study, who intends to take subsequent courses in literature.

13. *Oral and Written French.* Third-year course. This course is conducted largely in French. Admission is subject to the approval of the instructor in each semester. The normal sequence is 13 A during the spring semester of one year and 13 B during the following fall semester. The two parts of the course are organized as follows:

A. Analytical study and practice of the elements of communication in French: basic conversational patterns; the sound, rhythm and tone patterns of French pronunciation; advanced review of grammar; exercises in written expression.

Prerequisite: Grade of B– or higher in French 12, or equivalent skill in the language, to be determined by a placement test.

Open to freshmen.

M. W., 9; laboratory F., 1 to 3. Mr. Reid

Offered in the spring semester in alternate years.

Omitted 1952-53.

B. Advanced practice of communication in French. Composition, oral reports, classroom discussion.

Not open to freshmen.

M. W., 9; laboratory F., 1 to 3. Mr. Nicol

Offered in the fall semester in alternate years.

To be omitted 1953-54.

14. *Readings in French Literature.* Third-year course. The emphasis in the first semester is on reading as communication, with analysis and practice of the techniques of effective reading in French. The emphasis in the second semester is on an understanding of the contribution of a number of French works of universal importance and appeal.

Prerequisite: French 12 or the equivalent, to be determined by a placement test.

Open to freshmen.

Through the year. M. W. F., 11; Tu. Th. S., 11.

Mr. Reid, first semester
Mr. Nicol, second semester

113. *Introduction to French Civilization.* A selective survey of the history, art, literature and music of France, from the Middle Ages to the present time. An elementary reading knowledge of French is desirable but not required. Admission is subject to the approval of the instructor.

French 113 may be counted in fulfillment of the general requirement in art, music and literature, but not toward fulfillment of the requirement in foreign language.

Some meetings are held in the Worcester Art Museum.

Through the year. M. W. F., 10. Mr. Nicol

Offered in alternate years. Omitted 1952-53.

114b. *General View of French Literature.* An interpretation of the main currents of French literature. Each period is studied by concentrating attention on a limited number of works and authors best bringing to focus the characteristics of the period.

Prerequisite: Grade of B– or higher in French 13 or 14 or the equivalent.

Half course. Second semester. MR. KING

125. *The Novel.* Detailed study of prose literature as exemplified in selected works characteristic of different periods from the Middle Ages to the present. Some attention is given to the essay, the short story, memoirs, maxims and letters as well as the novel. Conducted in French.

Prerequisite: Grade of B– or higher in French 114b or the equivalent.

Through the year. Tu. Th. S., 10. MR. NICOL

Offered in alternate years. Omitted 1952-53.

126. *Poetry and Drama.* Intensive study of a limited number of poets and dramatists who best reflect both the technique and spirit of various periods from the Middle Ages to the present. Conducted in French.

Prerequisite: Grade of B– or higher in French 114b or the equivalent.

Through the year. Tu. Th. S., 10. MR. NICOL

Offered in alternate years. To be omitted 1953-54.

123b. *Advanced Language.* Advanced composition and special study of grammatical topics.

Prerequisite: Grade of B– or higher in French 13B. Romance Languages 124a is desirable but not required.

Half course. Second semester. MR. MACQUEEN

Offered when the demand warrants. Omitted 1952-53.

Romance Languages 124b. Comparative French and Spanish Phonetics. The elements of general phonetics. A detailed study of the pronunciation of French and Spanish. A required course for majors who wish to be recommended for teaching either language.

Prerequisite: Grade of B– or higher in French 13A or Spanish 13.

Half course. Second semester. M. W., 10; laboratory F., 1 to 3. MR. REID

Offered in alternate years. To be omitted 1953-54.

Courses in Spanish

During the academic year 1952-53 the following courses were given: 11, 12, 13, 14, and 114.

1. PRIMARILY FOR UNDERGRADUATES

11. *Elementary.* For beginners. The elements of grammar and pronunciation; carefully graded reading; exercises in speaking and writing.

Indivisible course.

Open to freshmen.

Through the year. M. W. F., 11; Tu. Th. S., 11.

MR. KING AND MR. REID

12. *Intermediate.* Review of grammar, exercises in composition and pronunciation, intensive and extensive reading of texts dealing with Spain and Spanish America.

Prerequisite: Spanish 11, or the equivalent, to be determined by a placement test.

Indivisible course.

Open to freshmen.

Through the year. Tu. Th. S., 8. MR. MACQUEEN

NOTE: The note preceding the description of French 13 and 14 applies equally to Spanish 13 and 14.

13. *Third-Year Oral and Written Spanish.* A rapid intensive review of grammar; the elements of phonetics; exercises in composition and pronunciation; conversational practice. Course 13 is conducted largely in Spanish.

Prerequisite: Grade of B— or higher in Spanish 12, or equivalent skill in the language, to be determined by a placement test. Admission is subject to the approval of the instructor.

Open to freshmen.

Through the year. M. F., 11; laboratory, W., 1 to 3. MR. KING

Offered in alternate years. To be omitted 1953-54.

14. *Readings in Spanish and Spanish-American Literature.* Third-year course. The first semester is devoted to Spanish American works, the second semester to Spanish. The emphasis in the first semester is on reading as communication, with analysis and practice of the techniques of effective reading in Spanish. The emphasis in the second semester is on the understanding of a number of major works of the literature of Spain.

Prerequisite: Spanish 12, or the equivalent, to be determined by a placement test.

Open to freshmen.

Through the year. M. W. F., 10. MR. REID

114. *The Literature of Spain.* A general view of Spanish literature with emphasis on the study of the origins and development of the novel and drama, culminating in the masterworks of the nineteenth century. Necessary attention is given to political and cultural background.

Prerequisite: Grade of B– or higher in Spanish 13 or 14 or the equivalent.

Through the year. M. W. F., 11. MR. KING

Offered in alternate years. Omitted 1952-53.

Romance Languages 124b. Comparative French and Spanish Phonetics. The elements of general phonetics. A detailed study of the pronunciation of French and Spanish. A required course for majors who wish to be recommended for teaching either language.

Prerequisite: Grade of B– or higher in French 12a, or Spanish 13.

Half course. Second semester. M. W., 10; laboratory F., 1 to 3. MR. REID

Offered in alternate years. To be omitted 1953-54.

Russian

These courses are offered to enable students to acquire a reading knowledge of the language.

Russian 11. Elementary Russian. Basic grammar and vocabulary.
Through the year. Mrs. Brahm

Russian 12. Intermediate Russian. Advanced grammar. Reading and conversation.
Through the year. Mrs. Brahm

Sociology

A description of the offerings in Sociology will be found in the announcement of the Department of Economics and Sociology.

Spanish

A description of the offerings in Spanish will be found in the announcement of the Department of Romance Languages.

The Summer School

June 22 to August 6, 1953

A six-week summer school was established in 1921, primarily to serve teachers who were employed during the regular academic year. Its organization and its offerings were relatively independent of the general university program.

The national emergency beginning in 1941 made it desirable to provided opportunities for college students to complete their requirements for a bachelor's degree in as short a time as possible. Accordingly the summer school was lengthened to twelve weeks and made an integral part of the college program. With the passing of the emergency and with the demands for acceleration decreasing, the twelve-week summer was discontinued at the close of the 1949 session.

For the summer of 1950 a return was made to a summer session of approximately six weeks duration.

In 1951 a six weeks session was again offered and when it appeared possible that another crisis might be at hand this was supplemented by an independent twelve weeks session beginning at the same time.

For the summer of 1952 a return was made to the shorter term of approximately six and one-half weeks, and the same plan will be followed in 1953.

Work done in the summer term may be counted toward the fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Business Administration, Master of Arts, and Doctor of Philosophy. A graduate student should secure the explicit approval of his major department for any program undertaken during the summer term.

Unless otherwise announced, subjects are presented in half courses. A half course, equivalent to three semester hours, involves five sixty-minute periods per week, or their equivalent, throughout six weeks. A normal program is two subjects carried concurrently.

Tuition charges, for a normal program of two subjects, are $100.00 for the six week term. The charge for a single subject is $50.00.

Dormitory accommodations for both men and women are available at reasonable rates.

The Summer Term Bulletin contains descriptions of the various courses to be offered and may be had upon application to THE DEAN OF THE COLLEGE, CLARK UNIVERSITY, WORCESTER 10, MASSACHUSETTS.

Courses Offered in the Summer Terms

Courses are identified by number. Any particular course bears the same identifying number whether it is offered during the regular academic year or in the summer term. Courses primarily for undergraduates have numbers beginning with the numeral "1," those for advanced undergraduates and graduate students, with the numeral "2," and those primarily for graduate students, with the numeral "3."

Courses Given in 1952

BIOLOGY

ST 17.	*Animal Ecology.*	MR. NUNNEMACHER
ST 20.	*Histology.*	MR. NUNNEMACHER

BUSINESS ADMINISTRATION

ST 16.	*Business Statistics* (Double course).	MR. HARGEST

ECONOMICS

ST 211a.	*Current Economic Problems.*	MR. SCHAFFER
ST 211b.	*Comparative Economic Systems.*	MR. SCHAFFER

EDUCATION

ST 201a.	*Educational Psychology—Child Growth and Development.*	MR. LANE
ST 210.	*Character and Citizenship Development: A Psychological Approach*	MR. JONES

ST 216. *Group Guidance and Citizenship Development.* Mr. Jones

ST 217a. *Principles and Practices of Individual Guidance.* Mr. Lane

ST 222a. *Curriculum Development in Secondary Education.* Mr. V. Johnson

ST 206b. *Teaching History and the Social Studies in Secondary Schools.* Mr. Abbott

ST Geography 20. *Geography in Education.* Mr. Scarfe

ENGLISH

ST General Education 17a. *Great English and American Writers.* Mr. Carter

ST General Education 17b. *Great English and American Writers.* Mr. Anderson

ST 13a. *Shakespeare.* Mr. Anderson

GEOGRAPHY

ST 201b. *Political Geography–Problem Areas* Mr. Van Valkenburg

ST 275. *Regional Geography of the Mediterranean.* Mr. Van Valkenburg

ST 20. *Geography in Education.* Mr. Scarfe

ST 281. *Agricultural Geography of Great Britain.* Mr. Scarfe

ST 291. *Cartography.* Mr. Burnham

GERMAN

ST 13. *Third Year German* (Double course). Mr. Arndt

HISTORY

ST 232a. *Constiutional History of the United States.* Mr. Campbell

ST 235. *United States in the 20th Century.* Mr. Campbell

ST 282. *History of the Soviet System.* Mr. Raeff

ST Education 206b. *Teaching History and the Social Studies in Secondary Schools.* Mr. Abbott

PSYCHOLOGY

ST 11. *General Psychology* (Double course). Mr. Bruell

SOCIOLOGY

ST 12b. *Introduction to Cultural Anthropology.* Mr. Killian

ST 21a. *The Family and Society.* Mr. Killian

SPANISH

ST 12. *Intermediate Spanish* (Double course). Mr. Ramsey

Courses to be Offered in 1953

BIOLOGY

ST 17. *Animal Ecology.* Mr. Nunnemacher

Biology-Geography 299a. *Field Methods and Studies.* Messrs. Nunnemacher and Warman

ECONOMICS

ST 101. *The American Economic System.* Mr. Lucas

ST 201. *Basic Economic Issues Confronting the American People.* Mr. Lucas

EDUCATION

ST 210b. *Education for Citizenship: Methods and Materials.* Mr. Jones

ST 212. *Guidance in Secondary Schools.* Mr. Lane

ST 214a. *Educational Psychology: Student Evaluation.* Mr. Jones

ST 260. *Methods and Materials in Elementary Education.*

ST 261. *The Curriculum Development in Elementary Education.*

ST 262. *Mental Hygiene in Teaching and Guidance: Community Resources in Mental Hygiene.* Mr. Lane

ENGLISH

ST 12. *Public Speaking.* Mr. Moore

ST 117. *Romantic Poetry.* Mr. Moore

FRENCH

ST 12.	*Intermediate.* Double course.	Mr. MacQueen
ST 14.	*Readings in French Literature.*	Mr. Reid

GEOGRAPHY

Biology-Geography 292a.	*Field Methods and Studies.*	Messrs. Nunnemacher and Warman
ST 285b.	*Geography of Asia.*	Mr. Van Valkenburg
ST 26a.	*Economic Geography*	Mr. Warman
ST 201b.	*Political Geography: Problem Areas.*	Mr. Van Valkenburg
ST 191.	*Cartography.*	Mr. Burnham

GERMAN

ST 11.	*Introductory German.* Double course.	Mr. Beerbaum
ST 12.	*Intermediate German.* Double course.	Mr. Edwards

GOVERNMENT

ST 251.	*American Political Parties.*	Mr. Cohen

HISTORY

ST 230b.	*U. S. Social and Intellectual History Since 1865.*	Mr. Campbell

SOCIOLOGY

ST 12b.	*Introduction to Cultural Anthropology.*	Mr. Killian
ST 21a.	*The Family and Society.*	Mr. Killian

The Degree of Bachelor of Education

The degree of Bachelor of Education has been offered primarily to teachers in the Worcester school system and to those in nearby towns since 1923. A condition for admission to candidacy for the degree is completion of a two-year normal school course, or its equivalent. A year of professional, full-time teaching experience is a prerequisite for the degree.

Since the State Teachers College of Worcester began granting a bachelor's degree the reasons for offering such a degree have largely ceased to exist, and there has been a material shrinkage in the number of candidates.

At present new candidates may be accepted, if at all, only after special action.

Register and Directories

Trustees

Administration

Academic Boards and Committees

Faculty

Students — 1952-53

Degrees — 1952

Board of Trustees

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

George H. Mirick (1920)	Worcester, Mass.
Francis H. Dewey, Jr. (1934)	Worcester, Mass.
Robert H. Loomis (1936), President	Boston, Mass.
Frank L. Adams (1938)	Worcester, Mass.
Howard M. Booth (1939)	Worcester, Mass.
Samuel H. Dolbear (1940)	New York, N. Y.
Carl E. Wahlstrom (1942), Vice-President	Worcester, Mass.
Raymond T. Gifford (1947), Treasurer	Worcester, Mass.
John Jeppson (1948)	Worcester, Mass.
Harry C. Coley (1948)	Worcester, Mass.
Roland A. Erickson (1951), Secretary	Worcester, Mass.

ELECTED TO REPRESENT THE ALUMNI
(Four Year Term)

John C. O'Brien (1949)	Chevy Chase, Md.
Eugene L. Richmond (1950)	Worcester, Mass.
Henry C. Marble (1951)	Boston, Mass.
Herbert F. Lange (1952)	Detroit, Mich.

Administration

Office of the President

Howard B. Jefferson, President of the University
Robert P. Anderson, Assistant to the President
Irma M. Brown, Secretary to the President
Jewel A. Emory, Assistant in Public Relations

Office of the Colleges

Homer P. Little, Dean
M. Hazel Hughes, Associate Dean for Women
Arthur F. Lucas, Director of the Division of Business Administration

George H. Merriam, Assistant Director of Admissions
David Lane, Director of Placement and Vocational Counselor
Gladys Diliberto, Secretary to the Dean

Office of the Graduate School

James A. Maxwell, Secretary of the Graduate Board and Secretary of the Committee on Credentials.
Samuel Van Valkenburg, Chairman of the Committee on Credentials.

Office of the Treasurer

Raymond T. Gifford, Treasurer — 18 Chestnut St., Worcester, Mass.
Allen B. Miller, Assistant Treasurer
Mary A. Hubbard, Bursar
Alice M. Currie, Assistant Bursar
Patrick V. Sheehan, Manager of the Bookstore

Office of the Librarian

Albert C. Gerould, Librarian
Marion Henderson, Assistant Librarian
R. Webb Noyes, Assistant Librarian

Office of the Registrar

Lydia P. Colby, Registrar

Office of the Medical Director

Michael B. Fox, M.D., Medical Director
Milton, H. Yudell, M.D., Medical Director
Winifred Nagle, R. N., Nurse in charge of Infirmary

Office of Physical Education

Rocheleau Z. Granger, Jr., Director of Physical Education for Men
M. Hazel Hughes, Director of Physical Education for Women
Roland C. Lambert, Assistant Director of Physical Education for Men
Frances Cockerell, Assistant Director of Physical Education for Women

Office of the Alumni Association

George E. Allen, Alumni Secretary

Academic Boards and Committees

THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general education work of the university and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Dwight E. Lee.

THE UNIVERSITY SENATE

President Howard B. Jefferson, *Chairman*

The Senate consists of the President as chairman, and not less than six members of the Faculty appointed by the President. Its duties are to "advise the President with regard to questions of general policy and such other matters as may be laid before it by the President." It may bring appropriate matters to the attention of the Faculty, the Graduate Board and the Collegiate Board. It may recommend to the Faculty candidates for honorary degrees.

President Howard B. Jefferson, *Chairman*

Karl O. E. Anderson
Jesse L. Bullock
Charles T. Bumer
Robert S. Illingworth
Vernon Jones
Dwight E. Lee
Homer P. Little
James A. Maxwell
David Potter
Percy M. Roope
Samuel Van Valkenburg
Heinz Werner

THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division and is responsible for the nomination to the Board of Trustees of candidates for the degree of Master of Arts and of Doctor of Philosophy.

President Howard B. Jefferson, *ex officio*

John E. Bell
Jesse L. Bullock
Sherman S. Hayden
Vernon Jones
H. Donaldson Jordan
Dwight E. Lee
Arthur F. Lucas
Arthur E. Martell
F. Eugene Melder
Raymond E. Murphy
David Potter
Percy M. Roope
Samuel Van Valkenburg
Heinz Werner

James A. Maxwell, *Secretary*

THE COLLEGE BOARD

The College Board consists of the President, the Dean of the college, and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division, subject to the control of the Faculty, and recommends to the Faculty candidates for the bachelor's degrees.

President Howard B. Jefferson, *ex officio*
Dean Homer P. Little, *ex officio*

H. Donaldson Jordan
Eugene J. Kelley
J. Fannin King
Arthur E. Martell
John S. Stubbe

Howard K. Moore, *Secretary*

THE ACADEMIC COUNCIL

The Council, established by vote of the faculty, is appointed by the President of the University subject to regulations providing for the distribution of its membership among the various divisions and departments.

Its duties are to make recommendations regarding undergraduate educational policies, to check on the program of courses offered to undergraduates and to supervise honors work, senior surveys, and comprehensive examinations.

President Howard B. Jefferson, *ex officio*
Dean Homer P. Little, *ex officio*
Robert F. Campbell, *Chairman*
Claude W. Barlow, *Secretary*

Karl J. Arndt
S. P. Cowardin, III
Daniel Gorenstein
Richard J. Lougee
Rudolph F. Nunnemacher
Percy M. Roope
Heinz Werner

ADMINISTRATIVE COMMITTEE FOR THE DIVISION OF BUSINESS ADMINISTRATION

President Howard B. Jefferson, *ex officio*
Arthur F. Lucas, *Chairman*

John E. Bell
George E. Hargest
Eugene J. Kelley
Homer P. Little
James A. Maxwell
Raymond E. Murphy

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected to advise the President regarding the personnel and the organization of departments.

Homer P. Little, *ex officio*

Charles T. Bumer
H. Donaldson Jordan
Dwight E. Lee
David Potter
J. Richard Reid
Samuel Van Valkenburg
Heinz Werner

THE LIBRARY COMMITTEE

J. Richard Reid, *Chairman*

Robert F. Campbell
Rudolph F. Nunnemacher

ATWOOD HALL COMMITTEE

Albert C. Gerould, *Chairman*

James S. Edwards
H. Earle Johnson

THE STUDENT ACTIVITIES FUND COMMITTEE

Percy M. Roope, *Chairman*

Guy H. Burnham, *Treasurer*
George E. Hargest

Standing Committees of the Graduate Board

The President of the university is, *ex officio,* a member of all committees of the Graduate Board.

THE COMMITTEE ON CREDENTIALS

The committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to fellowships and scholarships and candidacy for graduate degrees.

Samuel Van Valkenburg, *Chairman*

Jesse L. Bullock
Vernon Jones
Dwight E. Lee
Heinz Werner

James A. Maxwell, *Secretary*

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

Karl J. Arndt, Professor of German
J. Richard Reid, Associate Professor of Romance Languages
A representative of the student's major department

Standing Committees of the College Board

The President of the university and the Dean of the college are, *ex officio,* members of all committees of the College Board.

THE COMMITTEE ON ADMISSIONS

Sherman S. Hayden
Robert S. Illingworth
George H. Merriam
David Potter

THE COMMITTEE ON ATHLETICS

David Potter, *Chairman*
James A. Maxwell
Rocheleau Z. Granger, Jr.
Henry J. Warman

COMMITTEE ON SCHOLARSHIPS

Homer P. Little, *Chairman*

Charles T. Bumer
David Potter

Faculty

Listed in order of academic seniority within each rank

HOWARD BONAR JEFFERSON, PH.D., LL.D., L.H.D. 160 Woodland St.
President and Professor of Philosophy since 1946.
A.B., Denison University, 1923; Ph.D., Yale University, 1929; LL.D., Denison University 1948, Hillsdale College, 1952; L.H.D., Colgate University, 1951.

HOMER PAYSON LITTLE, PH.D. 156 Woodland St.
Dean of the College and Professor of Geology since 1922.
A.B., Williams College, 1906; Ph.D., Johns Hopkins University, 1910.

EMERITI

BENJAMIN SHORES MERIGOLD, PH.D., SC.D. 21 Maywood St.
Professor of Chemistry, Emeritus.

GEORGE HUBBARD BLAKESLEE, PH.D., L.H.D. 34 Monadnock Rd.
Professor of History and International Relations, Emeritus.

PHILIP HUDSON CHURCHMAN, PH.D. 20 Institute Rd.
Professor of Romance Languages, Emeritus.

HAVEN DARLING BRACKETT, PH.D. 138 Elm St.
Professor of Greek and Latin, Emeritus.

LEROY ALLSTON AMES, A.M. Spencer, Mass.
Professor of English Literature, Emeritus.

WILLIAM HOMER WARREN, PH.D. Fayston, Vt.
Professor of Organic Chemistry, Emeritus.

CAREY EYSTER MELVILLE, A.B. 33 Vincent Ave.
Professor of Mathematics, Emeritus.

LORING HOLMES DODD, PH.D. 88 Sagamore Rd.
Professor of Rhetoric, Emeritus.

SAMUEL J. BRANDENBURG, PH.D. 9 Willard Ave.
Professor of Economics and Sociology, Emeritus.

PROFESSORS

JESSE LUNT BULLOCK, PH.D. 35 Downing St.
Professor of Chemistry and Director of the Chemical Laboratories.
A.B., Harvard University, 1914; A.M., 1928; Ph.D., 1932. Assistant Professor, 1926-32; Associate Professor, 1932-37; Professor since 1937 (February).

†JAMES ACKLEY MAXWELL, PH.D. 15 Sunnyhill Dr.
Professor of Economics.
A.B., Dalhousie University, 1921; A.M., Harvard University, 1923; Ph.D., 1927. Instructor, 1924-26; Assistant Professor, 1926-28; Associate Professor, 1928-37; Professor since 1937 (February).

*SAMUEL VAN VALKENBURG, PH.D. 11 South Flagg St.
Professor of Geography. Director of the Graduate School of Geography.
Ph.D., University of Zürich, 1918. Special Lecturer in Geography, second semester, 1926-27; Assistant Professor, 1927-29; Associate Professor, 1932-37; Professor since 1937 (February).

ROBERT STANLEY ILLINGWORTH, A.M., ED.M. 209 Lovell St.
Professor of Speech and Drama.
A.B., Clark University, 1917; A.M., Lafayette College, 1926; Ed.M., Harvard University, 1933; B.D., Andover Theological School, 1945. Associate Professor of English, 1931-38; Professor since 1938 (February). Director of the Summer School, 1935-41.

VERNON JONES, PH.D. 267 Salisbury St.
Professor of Educational Psychology.
A.B., and A.M., University of Virginia, 1920; A.M., Columbia University, 1924; Ph.D., 1926. Associate Professor, 1926-38; Professor since 1938 (February).

HENRY DONALDSON JORDAN, PH.D. 171 Woodland St.
Professor of English History.
A.B., Harvard University, 1918; A.M., 1922; Ph.D., 1925. Associate Professor, 1931-38; Professor since 1938 (February).

†DWIGHT ERWIN LEE, PH.D. 3 Woodman Rd.
Professor of Modern European History.
A.B., University of Rochester, 1921; A.M., 1922; Ph.D., Harvard University, 1928 (February). Assistant Professor, 1927-30; Associate Professor, 1930-38; Professor since 1938 (February).

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*Absent on leave, first semester, 1952-53.

†Absent on leave, second semester, 1952-53.

*ARTHUR FLETCHER LUCAS, PH.D. 54 Morningside Rd.
Professor of Economics. Director of the Division of Business Administration.
A.B., Bates College, 1920; A.M., Princeton University, 1923; Ph.D., 1925. Assistant Professor, 1926-29; Associate Professor, 1929-38; Professor since 1938 (February).

DAVID POTTER, PH.D. 113 South St., Auburn, Mass.
Professor of Biology.
B.Sc., Massachusetts Agricultural College, 1916; M.Sc., 1923; Ph.D., Harvard University, 1932. Instructor, 1924-27; Assistant Professor, 1927-33; Associate Professor, 1933-38; Professor since 1938 (February).

PERCY MARTIN ROOPE, PH.D. 2 Lovell Drive
Professor of Physics.
A.B., Clark University, 1920; A.M., 1924; Ph.D., 1927. Instructor, 1921-27; Assistant Professor, 1927-31; Associate Professor, 1931-43; Professor since 1943.

RAYMOND EDWARD MURPHY, PH.D.
Westminster Rd., Princeton, Mass.
Professor of Economic Geography since 1946.
B.S., Missouri School of Mines and Metallurgy, 1923; M.S., University of Wisconsin, 1926; Ph.D., 1930.

HEINZ WERNER, PH.D. 10 Atwater St.
Professor of Psychology since 1947.
Ph.D., University of Vienna, 1915. G. Stanley Hall Professor of Genetic Psychology, April, 1949.

CHARLES THEODORE BUMER, PH.D. 121 Richmond Ave.
Professor of Mathematics since 1948.
B.Sc., Denison University, 1919; M.A., Harvard University, 1922; Ph.D., Ohio State University, 1931.

KARL J. ARNDT, PH.D. 5 Hazelwood Road
Professor of German since 1950.
A.M., Washington University, 1928; Ph.D., The Johns Hopkins University, 1933.

RICHARD JEWETT LOUGEE, PH.D.
Brigham Hill Rd., North Grafton, Mass.
Professor of Physiography.
B.S., Dartmouth College, 1927; A.M., University of Michigan, 1929; Ph.D., Columbia University, 1938. Associate Professor, 1947-1950 (January); Professor since 1950.

*-Deceased, July 7, 1953

Arthur Earl Martell, Ph.D. 17 Hapgood Way, Shrewsbury
Professor of Chemistry.
B.S., Worcester Polytechnic Institute, 1938; Ph.D., New York University, 1941. Assistant Professor, 1942-46; Associate Professor, 1946-51; Professor since 1951.

Joseph Weinreb, M.D. 21 Catherine St.
Professor (Affiliate) of Psychology since 1947.
B.A., Vanderbilt University, 1931; M.D., 1935.

Hans Boesch, Ph.D. 941 Main St.
Ph.D., University of Zurich, 1937. Visiting Professor in Geography, first semester, 1952-53.

ASSOCIATE PROFESSORS

John Elderkin Bell, Ed.D. Putnam Rd., Holden, Mass.
Associate Professor of Psychology since 1944.
B.A., University of British Columbia, 1933; M.A., Columbia University, 1941; Ed.D., 1942.

Rudolf Fink Nunnemacher, Ph.D.
1 Manchaug Rd., Sutton, Mass.
Associate Professor of Biology.
B.S., Kenyon College, 1934; M.A., Harvard University, 1935; Ph.D., 1938. Assistant Professor, 1939-44; Associate Professor since 1944.

Albert Chamberlain Gerould, B.S. in L.S.
12 Carleton Rd., Rochdale, Mass.
Librarian.
A.B., Dartmouth College, 1932; B.S. in Libr. Sci., Columbia University, 1935.

Frederick W. Killian, LL.B. 3A Clement St.
Associate Professor of Sociology since 1947.
LL.B., New York University, 1925; A.B., 1934.

George Edward Hargest, M.B.A. 150 Woodland St.
Associate Professor of Economics and Business Administration.
B.S., Temple University, 1933; M.Ed., 1937; M.B.A., Boston University, 1947. Assistant Professor, 1942-48; Associate Professor since 1948.

Theodore Nicol, Ph.D. 10 Circuit Ave.
Associate Professor of Romance Languages.
A.B., Clark University, 1926; A.M., Harvard University, 1928; Ph.D., 1933. Visiting Professor, 1946-48; Associate Professor since 1948.

J. RICHARD REID, PH.D. Stafford St., Rochdale, Mass.

Associate Professor of Romance Languages.

A.B., Swarthmore College, 1935; A.M., Harvard University, 1936; Ph.D., 1943. Assistant Professor, 1944-48; Associate Professor since 1948.

SEYMOUR WAPNER, PH.D. 20 Prouty Lane

Associate Professor of Psychology since 1948.

A.B., New York University, 1939; A.M., University of Michigan, 1940; Ph.D., 1943.

HENRY JOHN WARMAN, PH.D. 193 Lovell St.

Associate Professor of Geography.

B.S. in Ed., Bloomsburg, Pa., State Teachers' College, 1932; Ed.M., Temple University, 1938; Ph.D., Clark University, 1945. Assistant Professor, 1943-44; 1945-48; Associate Professor since 1948.

KARL OSCAR EMANUEL ANDERSON, PH.D.
5 Brentwood Dr., Holden, Mass.

Associate Professor of English.

A.B., Harvard University, 1927; A.M., 1928; Ph.D., 1942. Assistant Professor, 1945-49; Associate Professor since 1949.

ROY CHALMERS GUNTER, PH.D. Dodge, Mass.

Associate Professor of Physics.

B.S., Bowdoin College, 1938; A.M., Boston University, 1939; Ph.D., 1942. Instructor in Physics and Mathematics 1941 (February) - 1943; Assistant Professor of Physics 1943-49; Associate Professor since 1949.

SHERMAN STRONG HAYDEN, PH.D. 68 Moore Ave.

Associate Professor of International Relations.

A.B., Harvard University, 1930; LL.B., 1933; M.A., Columbia University, 1936; Ph.D., 1942. Assistant Professor, 1946-49; Associate Professor since 1949.

FREDERICK EUGENE MELDER, PH.D. 173 Woodland St.

Associate Professor of Economics.

B.B.A., Univerity of Washington, 1926; M.A., 1931; Ph.D., University of Wisconsin, 1936. Assistant Professor, 1937-42; Associate Professor, 1942-46, 1950-.

ROBERT FRANCIS CAMPBELL, PH.D. 72 Salisbury St.

Associate Professor of American History.

A.B., Yale University, 1939; A.M., Columbia University, 1940; Ph.D., 1947. Assistant Professor, 1946-50, Associate Professor since 1950.

†**Edward Counselman Higbee, Ph.D.**
78 Highland St., Holden, Mass.
Associate Professor of Geography since 1950.
B.A., University of Wisconsin, 1932; M.A., 1938; Ph.D., Johns Hopkins University, 1949.

Gerson Kegeles, Ph.D. 52 Zenith Drive
Associate Professor of Chemistry since 1951.
B.S., Yale University, 1937; Ph.D., 1940.

Claude W. Barlow, Ph.D. 2 Oak St.
Associate Professor of Classics.
A.B., Amherst College, 1928; M.A., Indiana University, 1930; Ph.D., Yale University, 1935. Assistant Professor, 1947-52; Associate Professor since 1952.

Leslie Phillips, Ph.D. 47 Lear St.
Associate Professor (Affiliate) in Clinical Psychology.
M.A., University of Chicago, 1944; Ph.D., 1949. Instructor (Affiliate) 1946-50; Assistant Professor (Affiliate) 1950; Associate Professor (Affiliate) since 1950.

Tamara Dembo, Ph.D. 426 Lovell St.
Associate Professor of Psychology.
Ph.D., University of Berlin, 1930.

ASSISTANT PROFESSORS

M. Hazel Hughes, M.Ed. 638 Pleasant St.
Associate Dean for Women. Director of Physical Education for Women.
B.Ed., Clark University, 1944; M.Ed., Boston University, 1949.

J. Fannin King, A.M. Estabrook Hall
Assistant Professor of Romance Languages since 1946.
A.B., Pomona College, 1936; A.M., Harvard University, 1937.

Morris H. Cohen, Ph.D. 989 Main St.
Assistant Professor of Government since 1947.
A.B., University of Chicago, 1939; Ph.D., 1950.

James S. Edwards, A.M. 25 Richards St.
Assistant Professor of German since 1947.
A.B., Brown University, 1936; A.M., 1938.

H. Earle Johnson, Mus.M. 7 Hawthorne St.
Assistant Professor of Music.
Mus.B., Boston University, 1933; Mus.B., Yale University, 1934; Mus.M., 1935. Instructor, 1936-42; Assistant Professor since 1947.

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†Absent on leave, second semester.

JOHN HIRAM BLAIR, M.A. 17 Fiske St.
Assistant Professor of Physiology since 1948.
B.A., Wesleyan University, 1937; M.A., 1939.

DAVID LANE, PH.D. 1 Dayton St.
Assistant Professor of Education since 1948, and Director of Placement.
A.B., University of Maryland, 1941; M.A., Columbia University, 1947; Ph.D., 1952.

ROCHELEAU Z. GRANGER, JR., M.A. IN ED.
113 Paxton St., Leicester, Mass.
Director of Physical Education for Men since 1949.
B.A., Clark University, 1938; M.A. in Ed., 1939.

GORDON T. GWINN, PH.D. 54 Downing St.
Assistant Professor of Psychology since 1949.
B.A., University of Arizona, 1942; Ph.D., Yale University, 1948.

EUGENE JOHN KELLEY, M.B.A. 16 Oread St.
Assistant Professor of Economics and Business Administration since 1949.
B.S., University of Connecticut, 1944; M.Ed., Boston University, 1948; M.B.A., 1949.

RICHARD BLAZO MARTIN, PH.D.
150 Pleasant St., Saundersville, Mass.
Assistant Professor of Chemistry.
A.B., Clark University, 1939; A.M., 1940; Ph.D., 1949. Instructor, 1946-49; Assistant Professor since 1949.

JOHN SUNAPEE STUBBE, PH.D. 101 South Flagg St.
Assistant Professor of Mathematics since 1949.
B.S., University of New Hampshire, 1941; M.S., Brown University, 1942; Ph.D., University of Cincinnati, 1945.

HENRY CHARLES BORGER, JR., M.A. Union St., Holden, Mass.
Assistant Professor of Education since 1950.
A.B., Princeton University, 1933; M.A., Columbia University, 1938.

HOWARD KIMBALL MOORE, PH.D. 1A Melville St.
Assistant Professor of English.
A.B., Boston University, 1939; A.M., 1940; Ph.D., 1950. Instructor, 1946-50, Assistant Professor since 1950.

JOSEPH A. NORDSTROM, M.S.
1010 Massachusetts Ave., Cambridge, Mass.
Assistant Professor of Business Administration since 1950.
B.S., Northeastern University, 1941; M.S., Massachusetts Institute of Technology, 1947.

WILLIAM H. CARTER, JR., PH.D. 18 Oread St.
Assistant Professor of English.
A.B., Middlebury College, 1936; A.M., Harvard University, 1938; Ph.D., 1951. Instructor, 1949-51; Assistant Professor since 1951.

DANIEL GORENSTEIN, PH.D. 43 Westchester Rd., Newton, Mass.
Assistant Professor of Mathematics since 1951.
A.B., Harvard University, 1943; Ph.D., 1950.

ROBERT N. BECK, PH.D. 24 Mayflower Rd., Leicester, Mass.
Assistant Professor of Philosophy.
A.B., Clark University, 1947; M.A., Boston University, 1948; Ph.D., 1950. Instructor 1948-52; Assistant Professor since 1952.

DONALD HENRY LETENDRE, A.M. IN ED. 17 Oberlin St.
Assistant Professor of English.
A.B., Clark University, 1938; A.M. in Ed., 1939.
Instructor 1946-52; Assistant Professor since 1952.

****MARC RAEFF, PH.D.** 989 Main St.
Assistant Professor of History and Language.
M.A., Harvard University, 1947; Ph.D., 1950. Instructor, 1949-52; Assistant Professor since 1952.

SHELDON SCHAFFER, M.A. 4 Prouty Lane
Assistant Professor of Economics.
B.A., University of Iowa, 1944; M.A., Yale University, 1947. Instructor 1948-52; Assistant Professor since 1952.

INSTRUCTORS

GUY HARVEY BURNHAM, A.M. 19 Woodman Rd.
Instructor in Geography since 1946. Cartographer, Graduate School of Geography since 1922.
A.B., Clark University, 1916; A.M., 1922.

DONALD E. MACQUEEN, M.A. 22 Richards St.
Instructor in Romance Languages since 1947.
B.A., Adrian College, 1937; M.A., University of Michigan, 1938.

SAMUEL P. COWARDIN, III, A.M. 14 Oberlin St.
Instructor in Fine Arts since 1949.
A.B., Harvard University, 1943; A.M., 1948.

**Absent on leave, 1952-53.

ALFRED W. BEERBAUM, PH.D. 124 Brookline St.
Instructor in German since 1952.
A.B., Colby College, 1938; M.A., University of North Carolina, 1940; Ph.D., New York University, 1950.

CLARA BRAHM, PH.D. 426 Lovell St.
Instructor in Russian Language, 1952-53.
Ph.D., University of Heidelberg, 1926.

SAMUEL M. OSGOOD, M.A. 34 Lakeside Ave.
Instructor in Russian History, 1952-53.
B.A., University of Nevada, 1949; M.A., Clark University, 1951.

THEODORE LEVENTHAL, B.A. 36 Granville Ave.
Instructor in Psychology, second semester, 1952-53.
B.A., Brooklyn College, 1948.

LECTURERS

PHILIP H. BREEN, LL.B. 151 Barnard Rd.
Lecturer in Business Law since 1947 (January).
A.B., The College of the Holy Cross, 1920; LL.B., Boston University, 1923.

GEORGE KLEIN, PH.D.
Visiting Lecturer in Personality Dynamics, 1952-53.
A.B., College of the City of New York, 1938; A.M., Columbia University, 1939; Ph.D., 1942.

THELMA G. ALPER, PH.D. 97 Mt. Vernon St., Boston
Visiting Lecturer in Psychology, 1952-53.
A.B., Wellesley College, 1929; M.A., 1933; Ph.D., Radcliffe College, 1943.

MARVIN OPLER, PH.D.
Visiting Lecturer in Psychology, 1952-53.
A.B., University of Michigan, 1935; Ph.D., Columbia University, 1938.

FRANKLIN CARTER, M.D.
Psychiatric Consultant, 1952-53.
B.S., Yale University, 1935; M.D., Harvard University, 1941.

LEONARD S. KOGAN, PH.D. New York, N. Y.
Visiting Lecturer in Psychology, 1952-53.
A.B., Lafayette College, 1940; M.A., University of Rochester, 1942; Ph.D., 1948.

ERWIN RAISZ, PH.D. Cambridge, Mass.
Visiting Lecturer in Geography, second semester.
Diploma, Royal Polytechnicum, Budapest, 1914; M.A., 1924; Ph.D., Columbia University, 1929.

MAX KLEIN, M.S. 10 Walnut Court, Leominster
Visiting Lecturer in Chemistry, second semester.
B.Ch.Eng., Polytechnic Institute of Brooklyn, 1948; M.S., 1951.

DIETER BRUNNSCHWEILER, PH.D.
Visiting Lecturer in Geography, second semester.

TEACHING FELLOWS

THOMAS G. DUFFY History and International Relations
A.B., Wayne University, 1948.

ALLEN R. GOLDFADEN Economics and Sociology
A.B., Clark University, 1950.

BERNARD KAPLAN Psychology
A.B., Brooklyn College, 1948; A.M., Clark University, 1950.

WILLIAM A. OSBORNE Economics and Sociology
B.S., Fisk University, 1952.

MICHAEL J. SKRYPA Chemistry
Sc.B., Brown University, 1950; A.M., Clark University, 1952.

PAUL WEINER Economics and Sociology
A.B., Northeastern University, 1951.

BERSWORTH POST DOCTORAL FELLOW IN CHEMISTRY

STANLEY CHABEREK, JR. February 1951 to August 1952
A.B., Clark University, 1947; A.M., 1948; Ph.D., 1949.

ASSISTANTS IN PHYSICAL EDUCATION

ROLAND C. LAMBERT, B.S. 1285 Main St.
Assistant Director of Physical Education for Men.
B.S., Springfield College, 1937.

FRANCES COCKRELL, B.S. IN ED. 24 Kenilworth Rd.
Assistant Director of Physical Education for Women.
B.S. in Ed., Bouvé-Boston School, 1949.

APPOINTMENTS UNDER GRADUATE FUNDS

The Alumni Association Fund

Jan H. Bruell Dipl., University of Heidelberg, 1949.	Psychology

The George S. Barton Fund

Helen M. Hyytiainen A.B., Clark University, 1952.	Chemistry
Warren K. Heckman B.B.A., Clark University, 1950.	Economics and Sociology

The Austin S. Garver Fund

Burton L. Komins B.S., Lowell Textile Institute, 1952.	Chemistry
Thomas B. Mulholland, Jr. B.S., Tufts College, 1951; A.M., Clark University, 1952.	Psychology
Azra I. Rahman-Kahn (nee Husain) A.B., Kinnard College for Women, 1948.	Geography
Robert D. Weitzel, Jr., first semester A.B., Lafayette College, 1952.	History and International Relations
Paul S. Greenlaw, second semester A.B., Syracuse University, 1952.	

The Charles H. Thurber Fund

Charles N. Forward A.B., University of British Columbia, 1949; A.M., 1952.	Geography

Directory of Students, 1952-53

Names of students are grouped in three lists. I, graduate students, undergraduate students, and special students in attendance during the regular academic year 1952-53; II, those who were in attendance in the second semester only; III, students in residence less than one semester; IV, those who attended the 1952 Summer School.

I. GRADUATE STUDENTS, COLLEGE STUDENTS AND SPECIAL STUDENTS IN ATTENDANCE DURING THE REGULAR ACADEMIC YEAR

Explanation: S—scholar; F—fellow; numerals 53, 54, 55, and 56 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; B—biology; BA—business administration; Ch—chemistry; Ec—economics and sociology; Ed—education; En—English; FA—fine arts; Ger—German; G—geography; H—history and international relations; M—mathematics; Ph—physics; Phil—philosophy; Ps—psychology; RL—romance languages.

"V" preceding the classification indicates a veteran.

An asterisk (*) indicates a student in residence during the first semester only.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

Name	*Classification*	*Home Address*	*Local Address*
Adamsky, Cathryn Ann	55	*Auburn*	
Aharonian, Donald John	54		34 Dover
Ahern, Edward Cyril	54	*New Haven, Conn.*	35 Maywood
Al-Ani, Khattab Saggar	G g	*Ana, Abbasia, Iraq*	939 Main
Allard, Robert Stanton	V 53		Green's Trailer Pk.
Allmon, Cecil Iris	54		217 May
Allstrom, June Margaret	56	*Auburn*	
Alpart, Marilyn	53	*Paterson, N. J.*	Fanning House
Anderson, Gunnar Bjork, Jr.	53	*Boylston*	
Andresano, Rocco Joseph	V 54		14 East Park Ter.
Andreson, Constance Ernest	54		712 Pleasant
Andreson, Nicholas George	56		272 Highland
Angelos, James Thomas	54	*Fitchburg*	67 Piedmont
Anthony, Perry Burrington, Jr.	56		272 Pleasant
Anton, Thomas Julius	56		84 Providence
Arbo, Walter Leslie	53	*East Poultney, Vt.*	34 Gates
Arkwell, Chester Stanley	55		17 W. Boylston Dr.
Ashley, Richard Earl	55	*Waterbury, Vt.*	145 Woodland
*Auer, Barbara Anne	54	*Glen Rock, N. J.*	Fanning House
Avey, Robert Edmond	V 54	*Marlboro*	

Name	*Classification*	*Home Address*	*Local Address*
Babor, Warren Rud	55	*Bound Brook, N. J.*	14 Oberlin
Bacon, Hugh Christy	53		11 Mt. Vernon
Bailey, Elaine Gertrude	56	*St. Johnsbury, Vt.*	Hahnemann Hosp.
Bailey, George LaForest	55	*Gardiner, Me.*	18 Shepard
Baker, Joyce Ann	56	*Southbridge*	Woodland House
Baker, Richard Joint	54	*Barre*	40 Richards
Bank, Stanley	55	*Bronx, N. Y.*	70 Maywood
Baraf, Joseph Elliot	56	*Neponsit, L. I., N. Y.*	Estabrook Hall
Bardsley, Bruce Morgan	56	*Auburn*	
Barker, Robert Burns	V 54		90 Burncoat
Barnett, Carol Jean	56	*New York, N. Y.*	Fanning House
Barse, Lawrence Paul	55	*Forest Hills, N. Y.*	36 Richards
Bassios, Anastasia	56		478 Burncoat
Beaudin, Marcia Rita	53	*Spencer*	Woodland House
Bedell, Forest Keith	V 55		30 Hollywood
Beemer, William Frederick	H S	*Clarks Summit, Pa.*	8 Sycamore
Belevick, Albin Francis	55	*Paxton*	
Belliveau, Robert Rock	53	*Auburn*	
Benjamin, Marcel René	V 54	*N. Grosvenordale, Conn.*	
Bennett, Edwin Howe	V 56	*Auburn*	
*Benoit, Pierre Leo	V 53	*Southbridge*	
Bercume, Aline Susan	54		930 Main
Bergquist, Brigham King	56		8 Abbott
Berkowitz, Hilda	53		25 Woodford
Bernstein, William Elliott	53		83-12 Park Ave.
Berthold, Elden George, Jr.	54	*Attleboro*	21 Shirley
Besnia, Richard Paul	54		30 Institute Rd.
Biancheria, Amilcare	Ch S		15 Benefit
Bianchi, David Alden	55		25 Perkins
Bibace, Roger Maurice Albert	Ps F	*Alexandria, Egypt*	5 Maple, Brookline
Bicknell, Donna	55		16 Bay State Rd.
Bilzerian, Edward Sarkis	55		1264 Pleasant
Blair, John Hiram	Ps g		17 Fiske
Blais, Frederick William	Ed g	*W. Stewartstown, N. H.*	Box 288, Westboro
Blane, Howard Thomas	V Ps g	*Daytona Beach, Fla.*	15 Pinckney, Boston
Bley, John Earl	54		2 Clough Ter.
*Blish, Constance	s		291 June
Bliss, Edwin Carpenter	53	*Aberdeen, N. C.*	Estabrook Hall
Bloch, Edward	54	*Flushing, L. I., N. Y.*	11 Hawthorne
Blomgren, Bertil Carl Arne	V 54		2 Weelahka Pl.
Bloomgarden, Gerald Alan	54	*Laurelton, L. I., N. Y.*	36 Richards
Bloomgarden, Toby Frances	56	*Albany, N. Y.*	Fanning House
Blumenfeld, Lorraine Ellen	56	*Brooklyn, N. Y.*	Woodland House
Boisvert, Gregory Louis	Ph g		Assumption Col.
Boisvert, Jean-Jacques	G g	*Shawinigan Falls, Can.*	6 Wyman

Name	*Classification*	*Home Address*	*Local Address*
Bolten, Jerome Jerald	56	*New York, N. Y.*	Estabrook Hall
Bondanza, Marie Ann	55	*Corona, N. Y.*	Woodland House
Boole, George Hagop, Jr.	V 53	*Brookline*	35 Maywood
Borglund, Robert Emmett	V 55		405 Bridle Path
Boryczewski, Walter Edward	V 53		55 Lafayette
*Bosworth, Russell Henry	V H g	*Leominster*	
Boucher, Russell Louis	V 55	*Fitchburg*	
Bouley, Gloria Ann	55	*North Oxford*	Blakeslee House
Bouvé, Clifton Edward	54		14 Richmond Ave.
Bowditch, (Mrs.) Helen Andrews	s		15 Westland
Bragg, John Douglas	V 54	*Framingham*	18 Claremont
Branagan, Francis Carr	V 55		1 King Ter.
Breen, John Joseph, Jr.	V Ec g	*Providence, R. I.*	
Briggs, Harry Caldwell	53		121 Bailey
Brooks, Blossom Sheila	53		78 May
Brotherton, Shirley Hope	54		3 Marcy
Bruell, Jan Herbert	Ps F		17 Minthorne
Bruso, Jean Anne	53		507 Cambridge
Bruso, Paul Richard	V 54	*Auburn*	
Bruso, William Frederick	V 54		20 William
Buckley, Cynthia Anne	56	*Auburn*	
Bult, Richard Barker	53	*Albany, N. Y.*	100 Woodland
*Bumer, John Quinette	V 53		121 Richmond Ave.
Bumer, Richard Fuller	53		121 Richmond Ave.
Bunker, Kenneth Gordon	56	*Wollaston*	Estabrook Hall
Burdulis, Bernice Mary	55		146 Sterling
Burns, Patricia Ann	55		27 Grand
Burton, David MacGregor	54		87 June
Burton, Frank Stevenson	56		87 June
Butterworth, Herbert Hartley	V 55	*Southbridge*	
Buzzell, Ronald Chester	53	*Stockholm, Me.*	21 Richards
Byman, Helena Urania	56	*Sturbridge*	Fanning House
Caplan, Elinor Beth	56	*New Haven, Conn.*	Woodland House
Caramiello, Joseph Eugene	56		58 Catharine
Card, Bryant Walter	55		199 Pleasant
Carini, Francis Frederick	V Ch F	*Framingham*	6 Castle
Carlon, (Mrs.) Marilyn Flora	53	*Wilmington, Vt.*	Fanning House
Carlson, Richard David	V 55	*Framingham*	
Carson, Deane Chalmers	V Ec g		7 Hawthorne
Caspi, Eliahu	Ch g	*Tel-Aviv, Israel*	56 Bowdoin
Chang, Jen Hu	G F	*Taipeh, Formosa*	86 Woodland
Chapman, Sally Ann	55		134 Richmond Ave.
Charlesworth, Donald William	54		2 Lauf
Charron, Georgiana Mae	54		70 Longfellow Rd.
Chartrand, Yolande Marie	53		1 Dawson Rd.

Name	*Classification*	*Home Address*	*Local Address*
Chavoor, Shirley Marie	56		17 Rob Roy Rd.
Chekas, Aldona Janina	53		24 Waverly
Cherry, Richard Meredith	V 56	*West Medway*	Estabrook Hall
Chin, Christopher John Matthew	V Ec g	*Northfield, Vt.*	8 Silver
Chin, Eugene Sheu Theung	54		106 Mechanic
Church, Joseph	Ps g		10 Silver
Clark, Carolyn Janet	53		63 Barnard Rd.
*Clark, Jean Marie	54	*Troy, Pa.*	Blakeslee House
Clavien, Yvonne Marcelle	53	*Templeton*	Woodland House
Cohen, Frederick Clifford	56	*Marlboro*	2 Clement
Cohen, Martin Bert	56	*New York, N. Y.*	Estabrook Hall
Cohen, Stephen Lee	56	*New York, N. Y.*	Estabrook Hall
Cohn, Linda	56	*Laurelton, L. I., N. Y.*	Fanning House
Comalli, Peter Elia, Jr.	V Ps F	*Lee*	6 Richards
Companion, Janet Louise	54	*Auburn*	
Companion, Richard Paul	56	*Auburn*	
Conant, Bryant Lee	55	*Auburn*	
Connolly, Raymond Joseph, Jr.	V 54	*Marlboro*	11 Hawthorne
Cooke, Milton James	V 53	*West Boylston*	
Corea, (Mrs.) Pearl Mildred	G F	*Colombo, Ceylon*	46 Tirrell
Couch, Norman Walter, Jr.	54	*New Preston, Conn.*	11 Dean
*Coughlin, Elizabeth Ann	s		27 May
Couillard, Robert Paul	54		93 Plantation
Coulter, Alan George	V 53	*Chicopee*	13 Gates
Coulter, William James, Jr.	53		19 Hartford Rd.
Coupe, George Alfred	V Ed g		7 Freeland Ter.
Courtney, Richard Clyde	V Ch F		27 King
Coutu, (Mrs.) Kathleen Ciprian	Ed g		8 Ashburnham Rd.
Cowen, Donald Wayne	55	*Providence, R. I.*	941 Main
Cramer, Howard Stanley	55		68 Vassar
Craven, Francis Joseph, Jr.	Ch S	*Lowell*	40 Richards
Crawford, Robert Lee	55		45 Gardner
Cregier, Don Mesick	H F	*Schenectady, N. Y.*	30 Oread
Cromidas, Paul	54		329 Mill
Cronin, Jean Louise	Ec S	*Marblehead*	23 Preston
Croog, Myra Leah	56	*New Haven, Conn.*	Fanning House
Crovitz, Herbert Floyd	53	*Edgewood, R. I.*	11 Charlotte
Crowley, Paul Walter, Jr.	V 55	*Winchendon*	42 Maywood
Cunningham, Howard Monroe	53	*Patten, Me.*	100 Woodland
Curran, Maryjane Elizabeth	53	*New Rochelle, N. Y.*	12 Elmwood
Curtis, Nancy Lillian	53		15 Sigel
Cutting, Charles Samuel	56	*Auburn*	
Cutting, Sylvia Grace	s	*Auburn*	
Dahlstrom, Robert Frederick	54		11 Louise
Daley, Harry Edward, Jr.	V 55	*Gardner*	5 Manor Rd., Shrewsbury

Name	*Classification*	*Home Address*	*Local Address*
Daly, James William	V 54	*East Weymouth*	
D'Angona, Dominic Stephen	V 54		40 Burghardt
Daspin, Michael Jerome	55	*New York, N. Y.*	36 Richards
Daughney, Henry Augustus	V 56	*Milford*	
*Davis, Paul	V 56		83 Chandler
Davis, Roberta Louise	54		24 Walcott
Dawson, Edmund Rushmore	55	*Marshall, Texas*	40 Richards
*DeGuise, Eleanor Anne	54	*Dracut*	Fanning House
Delliquadri, Lawrence Michael	G F	*New Castle, Pa.*	974 Main
Dembowitz, Alan Morton	56	*Brooklyn, N. Y.*	Estabrook Hall
Demers, William Joseph, Jr.	55	*Hudson, N. Y.*	136 Quinapoxet Lane
Dickison, Russell Alvin	V 53		417 Lake Ave.
Dickman, Irwin Lawrence	54	*Brooklyn, N. Y.*	36 Richards
Dima, Elaine	56		38 Englewood Ave.
Dix, Eugene Correll	V G g	*East Douglas*	
Donoian, Haig Cadmus	Ch S	*Lowell*	40 Richards
Doris, Robert Morrison, Jr.	53		9 Hawthorne
Douthit, Robert Collyer	54	*Petersham*	16 Marble
Downes, George Andrew, Jr.	53		9 Wentworth
Downey, Rae Edythe	54		16 Royal Rd.
Dube, Oscar LeRoy	53	*Fall River*	7 Kilby
*Duclos, Robert Joseph	V 54		175 Cohasset
Duffy, John Francis	54		310 Hamilton
Duffy, Thomas Glenn	V H F	*Detroit, Mich.*	20 Gates
Dugas, Jocelyn Anne	53	*Springfield*	Fanning House
Dune, Steve Charles	53	*Southbridge*	
Edwards, David Franklin, Jr.	V Ec g	*Cambridge, Md.*	40 Cedar
Ehrlich, Daniel Joseph	54	*New York, N. Y.*	10 Charlotte
*Ehrmanntraut, William James	53	*Belle Harbor, N. Y.*	128 Beaverbrook Py
Ekblaw, Elsa May	Ec g	*North Grafton*	
Elbein, Alan David	54		6 Howland Ter
Elliott, Charles Spencer	V s	*Harrison, N. Y.*	Estabrook Hall
Elliott, George Ferguson, Jr.	V s	*Harrison, N. Y.*	Estabrook Hall
Ellison, Herbert Richard	55		54 W. Boylston Dr
English, Richard Francis	56	*Westfield*	Estabrook Hall
Engstrom, Joan Alfreda	56		63 Upsala
Engstrom, Lincoln	V 56	*Auburn*	
Ephraim, Elliot Maurice	55	*Providence, R. I.*	36 Richards
Epstein, Bart Jacob	V G F		22 Downing
Erickson, Carolyn Ann	54		34 Butler
Erickson, Nancy Marie	53		6 Chesterfield Rd
Erickson, Richard Bruce	54	*Milford*	16 Marble
*Escalante, Alvaro Mario	56	*San José, Costa Rica*	Estabrook Hall
Escolas, Richard Allen	55	*Auburn*	
*Eteson, David Barton	s		6 Sheffield Rd
Evans, William Benjamin, Jr.	V Ec g	*Birmingham, Ala.*	6 Downing

Name	*Classification*	*Home Address*	*Local Address*
Falk, Gerald David	53	*New York, N. Y.*	9 Sherwood Rd.
*Falter, Elizabeth Johanna	54	*Woodcliff Lake, N. J.*	Fanning House
Farrow, Raymond Leonard	56		26 Haynes
Feeley, Joseph Carmel	V 53		5A Forestdale Rd.
Feinberg, Martin	53	*New York, N. Y.*	36 Richards
Feinblatt, Ann	56	*Waterbury, Conn.*	Woodland House
Feldt, Nancy Ann	55	*Auburn*	
Fermin-Gomez, Mercedes	G g	*Caracas, Venezuela*	4 Wyman
Fetherolf, John Warren	V 53	*Middletown, N. Y.*	11 Charlotte
Finnegan, Henry Paul	V 53		14 Caroline
Finneran, James Henry	V 56		5 Beechmont
Fischer, Constance Rose	54		108 Barnard Rd.
Fischer, Joyce Kay	53	*Bridgeport, Conn.*	93 Mill
*Flanagan, Donald Francis	54		39 Plantation
Flavell, John Hurley	V Ps g	*Rockland*	19 Ripley
Flint, Martin Barry	55	*Newark, N. J.*	36 Richards
Flynn, Ann Marie	53	*Southbridge*	
Foley, Elizabeth Mary	54		192 Highland
Foley, Martin Joseph, Jr.	55		192 Highland
Forte, Wesley Elbert	56	*North Brookfield*	
Forward, Charles Nelson	G F	*Ottawa, Canada*	9 Kilby
Forzley, Gladys Mary	54		3 Cutler
Foskett, Daniel Osgood	55	*Dodge*	
Fougere, Phillip Lawrence	V 56	*Westboro*	
Fox, Jerome	53	*Albany, N. Y.*	11 Charlotte
Franzen, Lincoln Arvidson	56		8 Rustic Dr.
Fraser, Ian Shenstone	G F	*Toronto, Canada*	34 Gates
Freeman, Richard Paul	54	*Onset*	60 Beaver
*Freitag, Marlene Marie	54	*Clinton*	
French, Donald Taylor	56		70 Moore Ave.
Friedman, Rosalind Sydell	56	*Peekskill, N. Y.*	Woodland House
Frodigh, Robert Carl	V 53		29 Quinapoxet Lane
Froitzheim, Vera Joan	56	*Jackson Hts., L. I., N. Y.*	Blakeslee House
*Gadomski, Stanley John	V 53	*Clinton*	
*Gagne, Robert Pickering	54	*Andover*	8 Oliver
Gallant, Gerard Adolphe	V 54	*Gardner*	
Ganji, Mohammad Hassan	G S	*Tehran, Iran*	40 Richards
Gannon, Joan Wilder	54		28 Wayne
Gans, Paul	56	*Brooklyn, N. Y.*	Estabrook Hall
*Garratt, Elizabeth Adelaide	54	*Auburn*	
Garrigus, Woodford McDowell	G g	*Ashland, Ohio*	40 Richards
Gauch, Ruth Magdalene	54		43 Dellwood Rd.
*Gazonas, Aristotle George	V H g	*Norristown, Pa.*	8 Sycamore
Gerrol, Melvin H.	55		3 Bellvista Rd.
*Giannini, Louis Domenic	V s		51 Tampa

Name	*Classification*	*Home Address*	*Local Address*
Giannitrapani, Duilio	Ps S		9 Crystal
Gilbert, Richard Gordon	53	*Auburn*	
Gilrein, Suzann Mary	55		21 Woodland
Ginsburg, Elizabeth Asher	53		11 Brantwood Rd.
Giuffrida, Matthew Roland	V 53		197 Belmont
Givan, James Alexander, Jr.	V 53		4 Downing
*Gleason, Paul Ray, Jr.	V s	*Millbury*	
Goldfaden, Allen Robert	V Ec F	*Norwich, Conn.*	989 Main
Goldman, Alfred Emmanuel	V Ps g	*Bronx, N. Y.*	133 St. Botolph, Boston
Goldstein, Julian Morton	55	*New York, N. Y.*	Estabrook Hall
Goodlight, Edward Thomas, Jr.	V 53		898 Main
Goodman, Alan Stanley	V 56		50 Copperfield Rd.
Goodstone, Lee Holbrook	54	*Needham Heights*	6 Downing
Gordon, David Fletcher	56		3 Dorothy Ave.
Gottlieb, (Mrs.) Selma Bernice	54		86 Longfellow Rd.
Gould, Loren Nelson	53		17 Darby
Grace, Doreen	56		41 Kinnicut Rd.
Greenbaum, Joan Beverly	54	*Elizabeth, N. J.*	Blakeslee House
Greene, Howard Herman	53	*Millbury*	
Greenfield, Robert Lewis	56	*Far Rockaway, N. Y.*	Estabrook Hall
Greenlaw, Paul Stephen	H S	*Syracuse, N. Y.*	100 Woodland
Greenwood, Louis Hunter	56	*Millbury*	
Groccia, Frank Edward, Jr.	V 56		1000 Grafton
Gropper, Elizabeth Rose	56	*Brooklyn, N. Y.*	Fanning House
Grossman, Hedda Ruth	55	*Bronx, N. Y.*	Fanning House
*Groves, Donald Edward	56		12 Tracy Pl.
Guerrin, Robert Francis	54	*Flushing, N. Y.*	11 Hawthorne
Gullberg, Marjorie Annette	53		789 Grove
Gurry, Donald Bruce	55	*New York, N. Y.*	40 Richards
Gustafson, Pauline Marilyn	53		29 Woods Ave.
Guthrie, Sally Irene	55		8 Prudence
Hackett, Charles Edward, Jr.	V 53	*Wilbraham*	13 Gates
Hagopian, Miasnig	s	*Providence, R. I.*	222 Maple Ave., Shrewsbury
Haidukiewicz, Phyllis Evelyn	53	*Gardner*	Woodland House
Haims, Bruce	56	*New York, N. Y.*	Estabrook Hall
Haith, William Lawrence	V 54	*Southbridge*	
Hamilton, (Mrs.) Helen Maxwell	Ed g	*West Boylston*	
*Handleman, Chester	V s		39 Terrace Dr.
Handleman, Paul Edwin	55		10 Wamsutta Ave.
Harlow, Robert Granville	Ps g	*Lowell*	15 Pinckney, Boston
*Hartouni, Edward	Ch g	*Tehran, Iran*	21 Richards
Haslam, Beverly	53	*Cranston, R. I.*	Fanning House
*Hassan, Hashim Abdul	56	*Karbala, Iraq*	Estabrook Hall
*Hastings, Andrew Dewey, Jr.	V G g	*Newport, N. H.*	QM. Climatic Research Lab., Lawrence

Name	*Classification*	*Home Address*	*Local Address*
*Hastings, Joseph Patrick	V s		11 Superior Rd.
Hausrath, William Frederic	53	*Lowell*	35 Maywood
Hawkes, Arnold Richard	V 56	*Parkman, Me.*	Estabrook Hall
Hebert, Raymond Joseph	V 53	*Leominster*	6 Richards
Heckman, Warren Keith	V Ec S		76 Sagamore Rd.
Hedin, Gerard Ephraim	s		58 West
Hegvig, Virginia May	V Ed g		9 Frank
Herman, John Bernard	55	*Millbury*	
Heroian, Ara Paul	55		165 Dewey
Hersch, Charles	Ps g	*Brooklyn, N. Y.*	19 Ripley
Hickey, Joseph Edward, Jr.	54	*Holden*	
Hickman, Charles Leroy, Jr.	V s		98 June
Higgins, Mary Ann	54	*Scarsdale, N. Y.*	Woodland House
Hightaian, Louise	53		104 Burncoat
Hoaglund, Ralph Donald	53		9 Monica Rd.
Hoffner, Herbert Howard	55	*Arverne, N. Y.*	100 Woodland
Holden, Raymond Henry	V Ps g	*Providence, R. I.*	
Holmes, Robert Philip	55	*Whitinsville*	Estabrook Hall
Hook, Grace Louise	53		62 Clark
Hopkins, Barbara Louise	53	*Holden*	
Hopkins, George Chester	V 54	*Framingham Centre*	941 Main
Houghton, Charles	56	*Hudson*	
Hubbard, Winifred Ray	s	*West Boylston*	
Hudson, Valeda Carolyn	53		45 Andover
Hug, Yolanda Agnes	53	*Auburn*	
Hughes, Vincent Leo	Ch F		20 Hancock
Hurwitz, Neal Jay	56		129 So. Flagg
Hutchinson, Charles Kenneth	55	*Milford*	16 Marble
Hutchinson, Richard Charles	53	*Sutton*	
Hutchinson, Robert Henry	V Ed g		29 Shaffner
Hyytiainen, Helen Marie	Ch S	*Auburn*	
Iarussi, Louise	55	*Framingham*	Blakeslee House
Isaacson, Stephen	56	*Brooklyn, N. Y.*	Estabrook Hall
Ismail, Abdul Rashid	53	*Bombay, India*	21 Richards
Italiano, Armando Robert	56		38 Shamrock
Jackola, Ann Marie	56	*Oakdale*	
Jaffe, Kayla Miriam	Ps S	*Brooklyn, N. Y.*	25 Highland Ave., Cambridge
Jennings, Sandra Paula	56	*Stratford, Conn.*	Fanning House
Jigarjian, Harold Charles	Ch g	*Whitinsville*	145 Woodland
Johnson, Albert Leonard	53		133 Clark
Johnson, Anna Ottoson	54	*Holden*	
Johnson, Anne Carolyn	54		1 Ivanhoe Rd.
Johnson, John Peter	V G g	*Orange, Conn.*	7 Kilby

Name	*Classification*	*Home Address*	*Local Addres*
Johnson, Lane Joseph	G S	*Denver, Col.*	6 Downing
Johnson, Nancy Ann	55		447 Grove
Johnson, Peter Christopher	54	*East Orange, N. J.*	17 Crystal
Johnson, Walter Bernard	56		65 Gates
Johnston, Norman	V 53	*Spencer*	
Jones, Mary Kathryn	53	*Southbridge*	41 May
Jowise, Janet Helen	56	*Long Island City, N. Y.*	Woodland House
Jungmann, Henry	53	*New York, N. Y.*	59 Maywood
Kabadian, Edward, Jr.	56		11 Bancroft
*Kabbani, (Mrs.) Enola Shimel	s	*Richfield Springs, N. Y.*	9 Westland
Kaden, Stanley Edward	Ps g		38 Merrick
Kalat, (Mrs.) Joan Odlin	Ec g	*Holden*	
*Kallio, Reino Ilmari	Ed g		18 Kosta
Kane, Jean Ann	56	*Marlboro*	
Kane, William Francis, Jr.	V G g	*Marlboro*	
Kapanen, (Mrs.) Elaine	55	*Fitchburg*	
Kaplan, Bernard	Ps F		30 May
Kastenbaum, Alice	Ps F		5 Einhorn Rd.
*Kavoogian, Dorothy Sitinick	53	*Shrewsbury*	
Kay, Marjorie Alice	56		46 Leeds
Keel, (Mrs.) Frances Bradford	56		9 Burgess Rd.
Keenan, Elizabeth Louise	54		10 Edwidge
Kelland, Frank Sydney	G g	*Keene, N. H.*	20 Gates
Kelley, Donald Lapan	V 53		142 Woodland
*Kelley, Justin John	Ed g		490 Grove
Kelly, John Joseph	V 56		31 Blossom
Kelly, Maureen Ellen	54		62 Sever
Kimura, Masami Lawrence	V 53	*Hilo, Hawaii*	11 Charlotte
King, Robert Edward	V Ed g	*Leicester*	
King, Robert Fabian	55	*Holden*	
King, Valerie	54		19 Pine Tree Dr.
Kirshenbaum, Sanford Marshall	55	*Providence, R. I.*	36 Richards
Kittredge, Margaret Anne	54		72 Morningside Rd.
Klein, Benjamin Zalman	56		5 Montvale Rd.
Klein, Stanley Howard	56	*Brooklyn, N. Y.*	Estabrook Hall
*Kline, Nathan Schellenberg	V Ps g	*Orangeburg, N. Y.*	Worcester State Hosp.
Knowlton, George William	V 54		470 Salisbury
*Komins, Burton Louis	Ch S		3 Wyman
Konjoian, Isabel Katherine	54		27 Russell
Koskinas, Christe Frank	54		134 Russell
Kotopoulos, Anna Angela	56	*Uxbridge*	Fanning House
Krajewski, Edward Joseph	53		5 Norwood
Krawczynski, Thaddeus Mitchell, Jr.	56	*Worcester*	Estabrook Hall
Kurkowski, Chester Richard	V Ec g	*Somerville, N. J.*	20 King

Name	*Classification*	*Home Address*	*Local Address*
Lacoste, Roger Gerard	Ch S	*Willimansett*	7 W. Oberlin
Lacouture, Alphonse Leon, Jr.	V 54	*Millbury*	
Laine, Norman Raymond	55		42 Velander
Lambros, Frank Harry	V 54	*Dudley*	
Lamm, Irwin Stuart	55	*New York, N. Y.*	Estabrook Hall
Lander, Ernest Mayer	56	*Caribou, Me.*	Estabrook Hall
Lander, Robert Harvey	56	*Caribou, Me.*	Estabrook Hall
Lane, John Everett	V Ps g		Worcester State Hosp.
LaPierre, Richard Alan	Ed g	*Leicester Junior College, Leicester*	
Larava, Ann Teresa	53		40 Kingsbury
Larson, Jane Louise	53	*Leicester*	
Lasmane, Elfrida	53	*Holden*	
Lauler, John William, Jr.	53	*Jersey Shore, Pa.*	48 Downing
Lavendier, Raymond Thomas	V 54		7 Mt. Vernon
Lavigne, Paul Taylor	V 56		20 Sherbrook Ave.
Lawton, Robert Earl	54	*Loudonville, N. Y.*	35 Maywood
Lazarus, George Milton	54		30 Irving
Leavitt, Phillip Arthur	V 53	*New York, N. Y.*	59 Maywood
Leblanc, Gerald Francis	Ed g	*Gardner*	
Lee, Dou Hyun	54	*Seoul, Korea*	Hahnemann Hospital
Leger, Eugene Henry	V 55		153 Chandler
Leger, Lucille Therese	53	*Fitchburg*	
Letteri, Joseph Paul	54, s	*Meriden, Conn.*	60 Oliver
LeVasseur, Virginia Ann	54		7 Wakefield
Levison, Peter Koleman	54	*Brookline*	59 Maywood
Lewis, Philip Ralph	56	*Far Rockaway, N. Y.*	Estabrook Hall
Lincoln, Ralph Patterson	56	*Barre*	Estabrook Hall
Lindberg, Charles Arthur	V 54		12 Crystal
Lindblom, Barbara Jane	56		51 No. Worcester Ave.
Lingner, Robert Earle	54		220 Webster
Lockhart, John	V 53		8 Quincy
Lofchie, Stanley Harold	V Ps g		12A Harvard
Longo, Nicholas Augustus	56	*Putnam, Conn.*	Estabrook Hall
Lopez, Manuel Dennis	56	*Westfield*	Estabrook Hall
Lorah, Robert William	V H g	*E. Liverpool, Ohio*	40 Richards
Lougee, (Mrs.) Clara Rom	G g	*North Grafton*	
Lowney, Gerald Mansfield	54		50 Barclay
Lubowitz, Herbert	54		10 No. Woodford
Lumsden, William Robert	V 54	*Douglaston, L. I., N. Y.*	17 Crystal
Lynch, Frances Elizabeth	56	*Marlboro*	Woodland House
MacConnell, Gary	56	*Granville, N. Y.*	Estabrook Hall
MacDougall, Lois Mae	56	*Glencoe, Ill.*	Blakeslee House
*MacFarland, Jameson David	V 53		182 Millbrook
Magiday, Kenneth	56	*Bronx, N. Y.*	Estabrook Hall
Malankowski, Anthony John	V 54	*Maspeth, L. I., N. Y.*	364 Lincoln

Name	*Classification*	*Home Address*	*Local Address*
Mallard, Sara Lynn	55		4 Old English Rd.
Mallen, Phyllis Toby	54		6 Farnum Ter.
Mandel, Charlotte Ann	56	*Arverne, L. I., N. Y.*	Woodland House
Mangano, James John	53		417 Shrewsbury
Mangerian, Richard Dikran	Ec g	*Everett*	145 Woodland
Mann, Leo Leamy	V 54	*Turners Falls*	10 Brewster Rd.
Mann, Stanley Joseph	54		22 Summerhill Ave.
Manning, Grace Anne	53		1 Rosemont Rd.
Manos, Victoria	56		70 Russell
Markham, Robert Andrew	54	*Fitchburg*	
Marrone, Norma Marie	56		40 Adams
Martel, Norman Albert	53	*Webster*	
*Martel, Raymond Joseph	Ed g		10 Dallas
Martin, Alice Louise	55		45 Merrick
Martin, Curtis Vanderbilt	V G F		4 Downing
*Martin, Neil August	56	*Brookfield*	
Martin, Richard Raymond	V 53		19 Oliver
Mate, Brian	55	*Rockaway Beach, N. Y.*	36 Richards
Mathews, Constance Anne	55		84 Clark
Matthew, David Vandlan	56	*West Berlin*	
May, Sandra Rose	56	*Belle Harbor, N. Y.*	Blakeslee House
Maynard, William Snyder	V 53		43 Queen
Mazur, Sarah Hannah	56		153 Chandler
McCarney, Francis Patrick, Jr.	V 54	*Jamaica Plain*	
McCarthy, Paul James	Ch g		Holy Cross College
McCormick, James Edgar	V G g	*Endicott, N. Y.*	20 Gates
McDonald, Joanne	53	*Westboro*	
McDonough, Anna Theresa	53		9 Holland Rd.
McGranaghan, William Joseph	V 54	*Northboro*	
McGrath, Dorothy Bernadine	53		68 Berwick
McKie, Margery Anne	54	*Sherman, Texas*	Elmwood, Millbury
McLean, William Andrew	H S		29 Westfield
McManus, Francis Joseph	V 54		18 Sturgis
McQuaid, Robert Allen	56	*Stafford Springs, Conn.*	Estabrook Hall
McSherry, Francis Joseph	V 55		982 Main
Meade, John Carberry	V 53	*Brockton*	14 Institute Rd.
Meissner, Philip George	V B S	*Little Neck, L. I., N. Y.*	40 Richards
Melvin, Paul Alan	55		216 W. Mountain
Mendelsohn, Jean Muriel	56	*Waban*	17 Oberlin
*Mendoza, Walter Edward	V Ed g	*Millis*	79 Beacon, Athol
*Menelly, Ernest Robert, Jr.	V 53	*Waltham*	
Michalski, Jan Kasimir	54		15 Vernon
Mihajlov, Vsevolod	Ch S		727 Main
Miles, Donna Ann	56	*Holden*	
Miller, Lois Marian	53		18 Dellwood Rd.
Milton, Barbara Ann	53		151 Brookline

Name	*Classification*	*Home Address*	*Local Address*
Misch, Robert Caesar	V Ps g		3 John
Mishler, Audrey	Ps S	*Long Island City, N. Y.*	32 Richards
Mitchell, Clara Evelyn	56	*Newark, N. J.*	Woodland House
Moiles, Shirley Louise	55	*Oxford*	Blakeslee House
Moniz, James	V 56	*Auburn*	
Moody, William Bruce	G g	*Oblong, Ill.*	8 Crystal
Morgan, (Mrs.) Marilyn Coombs	G S	*Westerly, R. I.*	24 Gates
Morgan, Mary Byrne	56		32 Hadwen Lane
Morgantini, Dean Francis	54	*West Pittston, Pa.*	17 Crystal
Morin, Marilyn Natalie	56		32 Maplewood Rd.
Moschos, Iphigenia	54		21 Morningside Rd.
Mosher, Edward Francis	55	*Rockland, Me.*	16 Marble
Mulholland, Thomas Basil, Jr.	Ps F	*Fitchburg*	30 May
Muller, Martha Wilhelmina	56		16 Atwater
Multer, Raymond Bertram	56	*Far Rockaway, N. Y.*	Estabrook Hall
Mulvey, Philip Francis, Jr.	53		130 Fairmont Ave.
Muollo, Henry Robert	56	*East Boston*	Estabrook Hall
Murdock, Arthur Chandler	53		2 Fern
Murphy, Charles Joseph	54	*Framingham*	
*Murray, James Hamilton	56	*Washington, D. C.*	Estabrook Hall
Nader, Michael Anthony	56		392 Shrewsbury
Nagle, Mary Elizabeth	54		138 June
Nasse, George Nicholas	V 53	*Southbridge*	
Nathan, Joseph	56	*Far Rockaway, N. Y.*	Estabrook Hall
Nazarow, John Peter	V 53	*Gardner*	
Nazemi, Said	55	*Teheran, Iran*	35 Maywood
Neary, (Mrs.) Beatrice Loretta	Ec F		193 Park Ave.
Nelson, Joan Ellen	55		112 Mill
Nelson, Richard Andrew	V 53		45 Uncatena Ave.
Nelson, Robert Alfred	V Ec g	*Norwood*	
Neri, Rudolph Prazio	s	*South Barre*	
Nester, Chloe Adele	53		14 W. Chester
Newman, Daniel Mordecai	53	*Brooklyn, N. Y.*	36 Richards
Nolde, Eloise Virginia	G S	*Richmond, Va.*	24 Gates
Noponen, Francis William	V 55		7 Phoebe Way
Norcross, Carol Evelyn	56	*Poughkeepsie, N. Y.*	Blakeslee House
Norman, Gerald Earl	53		9 Sherwood Rd.
Norton, Bruce Augustus	56	*Shrewsbury*	
Novakoski, Edward Anthony	V 54		14 Claremont
Novick, William John	53		4 Chapin
Nylin, Marilyn Bernadine	53		119 Airlie
O'Brien, William Paul	54		139 Lincoln
Ockerbloom, Nelson Edwin	V Ch g	*Longmeadow*	11 Hawthorne
O'Connell, Marie Frances	Ed g		752 Pleasant

Name	*Classification*	*Home Address*	*Local Address*
Ohara, Harold Tadashi	54	*Pearl City, Hawaii*	7 Kilby
Olson, Donald Hillier	56		2 Chalmers Rd.
Olson, Marjorie Louise	55		85 Downing
O'Malley, Ann Elizabeth	s	*Springfield*	
Oram, George Henry, Jr.	V 56	*Marlboro*	31 May
Osborne, William Adolphus	Ec F	*Georgetown, British Guinea*	111 Beacon
*Osgood, Samuel Maurice	V H g	*Westfield, N. J.*	34 Lakeside Ave.
Pallas, Chris George	55		58 Andover
Parsley, Elaine June	53		360 Mill
Patterson, Janet Ann	B S		17 Rockdale
Patterson, Robert Hornby	54	*Attleboro*	21 Shirley
Patterson, Wayne Everett	53	*Attleboro*	34 Gates
*Pawlikowski, Daniel Felix	V G g		17 Hammond
Peacock, Harold Lee, Jr.	54	*Waldoboro, Me.*	13 Gates
*Peirce, David Allen	54		2A Bellingham Rd.
Pelletz, Stanley Jordan	55		76 Vassar
Pena, José Antonio, Jr.	56	*New York, N. Y.*	Estabrook Hall
Perlman, Robert	56		1026 Main
Perry, Jane Frances	54		154 Lovell
Perry, Robert Folsom, Jr.	V G F	*Amesbury*	20 Gates
Peterson, Ruth Carolyn	56		158 Vernon
Phelps, Ronald Lincoln	56	*West Boylston*	
Phoenix, Ernest Gerard	V 53	*Troy, N. Y.*	39 Pleasant, Leicester
*Pike, Joan Mary	Ps g	*Bronx, N. Y.*	17 Oberlin
Pinero, Haydee	54	*New York, N. Y.*	Fanning House
Politzer, Frank	V Ps g	*Northampton*	
Pollack, Robert Harvey	Ps F	*New York, N. Y.*	160 Highland
Pollinger, Elaine	56	*Brooklyn, N. Y.*	Blakeslee House
*Polymeros, John Constantine	53	*Clinton*	
Poulsen, Roy George	V Ec g	*Dorchester*	766 Main
Powell, Arnet Lauriston	Ch g	*Natick*	
Prensner, Richard William	55		43 Forest
Pusateri, Vincent Peter	55		5 Astrid Ave.
Putnam, Patricia Ann	53		10 Kenwood Ave.
Quirk, Mary Jane	56	*Leominster*	
Radzik, Rose Marie	53		136 Endicott
Rahman Khan, (Mrs.) Azra Ihsanur	G F	*Karachi, Pakistan*	3 Shirley
Randall, Richard Ranier	V G F	*Chevy Chase, Md.*	171 Woodland
Rassias, John Nicholas	55		20 Hackfeld Rd.
Rebeyrol, Yvonne Colette	G S	*Mont-Saint-Aignan, France*	18 Otsego Rd.
Reddington, Eleanor Burnap	55		8 Dixon Ave.
Rhodes, Frederick Lawrence, Jr.	56		4 Allen
*Rice, Marshall Laughna	V 56		153 Brookline

Name	*Classification*	*Home Address*	*Local Address*
*Richards, Janet Mary	Ed g	*Fitchburg*	
Richason, George Robert, Jr.	V Ch g	*Amherst*	
Rimbach, Marella Deighton	53	*Sterling*	Woodland House
Rimbert, Sylvie Jeanne	G F	*Paris, France*	7 Wheeler Ave.
Riordan, Joan Frances	55	*Holden*	
Rizkalla, Janet Catherine	54		15 Acton
Roberts, Joan Bernice	55	*Millbury*	
Rodier, Ruth Elizabeth	54	*Oxford*	
Rogers, Kenneth Harrison	56		304 Lovell
Rollins, Joseph James	V 53		84 Lovell
Rosen, Carl Sanford	54	*Brooklyn, N. Y.*	40 Richards
Rosenbaum, Marvin	54	*Fitchburg*	
Rosenberg, Henry Ernest	55	*Hempstead, N. Y.*	37 May
Rosenblatt, Melvin Morton	53		38 Woodford
Rosengart, Carl Lester	55	*Arverne, N. Y.*	Estabrook Hall
Rosenthal, Marion Anne	56	*Far Rockaway, N. Y.*	Fanning House
Roulet, Mary Anne	56	*Medusa, N. Y.*	Woodland House
Royston, Patricia Mae	55	*Auburn*	
*Rubin, Phyllis	56	*Brooklyn, N. Y.*	Fanning House
Rudman, Paul Edward	55		17 Bluebell Rd.
Russell, David Alan	55	*Auburn*	
Sachs, Edward	54	*Bridgeport, Conn.*	36 Richards
*Salem, William John	V Ch g		394 Grafton
Salo, Lennart Reino	55		45 Erie Ave
Saltzman, Henry Victor	55	*New Bedford*	100 Woodland
Samaha, Frederick James	56		32 Ashwood
Sanderson, Richard James	56	*Delmar, N. Y.*	Estabrook Hall
Sarando, Minerva Mildred	54		12 Page
Saunders, Ralph Howard	54		3 Kingsbury
Sawyer, David Erickson	V 53		18 Huntington Ave.
Scarborough, John Robert	V 54		56 Cohasset
Schanberg, Saul Murray	54	*Clinton*	69 Maywood
Schotte, Carol Hazel	55		18 Brighton Rd.
Schulhoff, Celia Lila	54	*Athol*	Woodland House
Schulhoff, Diane Irma	5~~6~~5	*Athol*	Blakeslee House
Schwartz, Susan Frances	56	*Bronx, N. Y.*	Fanning House
Schweitzer, Jerome Howard	55	*Wellesley*	
Selner, Kay Lillian	56	*Syracuse, N. Y.*	Fanning House
Senanarong, Sawat	G g	*Bangkok, Thailand*	46 Tirrell
Sevigny, Allen Joseph	V 54	*Newtonville*	32 Oberlin
Shamoian, Charles Anthony	54		28 Belmont
Shapira, Nathaniel Abram	55	*Brockton*	14 Oberlin
Shaughnessy, Anna Camilla	Ed g		28 Maywood
Shediack, Joseph Charles, Jr.	V s		39 West
Shepeluk, Wasily, Jr.	55		61 Rodney

Name	*Classification*	*Home Address*	*Local Address*
Sher, Esther Frances	53		235 Cohasset
Sher, Gary	56	*Brooklyn, N. Y.*	Estabrook Hall
Shirley, Harry Pickford, Jr.	54		6 Maravista Rd.
Showket, Ibrahim	G g	*Baghdad, Iraq*	76 Maywood
Showket, (Mrs.) Subhia Mikdadi	53	*Baghdad, Iraq*	76 Maywood
Siegel, Rolland V.	54	*New York, N. Y.*	10 Charlotte
Sigalis, William Charles	55		10 Cottage
Silver, Sallye Joyce	54	*Larchmont, N. Y.*	Blakeslee House
*Silverman, Jack Leon	53	*Newton*	36 Richards
Sim, Victor Wallace	G S	*Stoney Creek, Ontario, Canada*	40 Richards
Simmons, Enid	56	*Livingston, N. J.*	Woodland House
Simon, Arleen	54	*Passaic, N. J.*	Woodland House
Simonian, Jean Marion	54		2 Hudson
Singer, Shirley Sally	56	*Brooklyn, N. Y.*	Woodland House
Skrypa, Michael John	V Ch F	*Woonsocket, R. I.*	6 Freeland
Slepian, Howard Joseph	Ps g	*Brooklyn, N. Y.*	19 Ripley
Smith, Harry William, Jr.	56	*Auburn*	
Smith, Ida	54	*Mendon*	
Smith, Marc Paul	55		3 Tahanto Rd.
Smith, Raymond Rodolphe	V 54	*Westboro*	
Snelling, Marjorie Eunice	56	*Spencer*	
Snyder, Ronald Fred	56	*Albany, N. Y.*	Estabrook Hall
Sobel, Marlene Charlotte	56	*Waterbury, Conn.*	Woodland House
Solomon, Seymour Arnold	55		11 Russell
Sorenson, Richard	s		310 Coburn Ave.
Sorvo, Paul John	53	*Millbury*	
Stanick, John Bernard	V 54	*Webster*	
Steeves, Marilyn Joan	53	*Gardner*	Woodland House
Steinberg, Norman	56		80 Houghton
Steinbrecher, Stephen	55	*Westport, Conn.*	36 Richards
Stekler, Herrmann Otto	55		55 Wachusett
Stern, Austin	54	*Coral Gables, Fla.*	35 Maywood
Sternberg, Harriet Elaine	Ed g	*Greenfield*	12 Oberlin
Sternlof, Paul William	53		14 Kosta
Stewart, Lauraine Mae	54	*Dalton*	Fanning House
Still, Gerald Maxwell	56	*New Haven, Conn.*	Estabrook Hall
Stoddard, Donald Fuller	V 54		16 Gates
Stone, Henry Washington, Jr.	V 53	*Oakham*	
Stout, Gretchen Beatrice	54	*New York, N. Y.*	Woodland House
Strates, Basil Stavros	53	*Philiates-Epirus, Greece*	21 Morningside Rd.
Strozina, Richard Thomas	V 53		215 Beacon
Sullivan, Neil Joseph	54	*Gilbertville*	
Sullivan, William Thomas	53	*Braintree*	26 Sever
Sundquist, Birgit Marie	55		53 Uncatena Ave.

Name	*Classification*	*Home Address*	*Local Address*
Surawski, Zigmont John	56		41 Hooper
Surprenant, Albert Wilfred, Jr.	V 53	*East Brookfield*	
Suss, Enid Marilyn	55	*New York, N. Y.*	Blakeslee House
Sussman, Richard Frederic	53	*Mt. Vernon, N. Y.*	36 Richards
Szerlag, Genevieve Agnas	53	*Northbridge*	
Tait, Jeanne	53		10 Suburban Rd.
Tateosian, John	55		129 Belmont
Taylor, Alvin Elliott	55	*Deering, N. H.*	16 Marble
Taylor, Earl Robert	V 54		107 Whitmarsh Ave.
Teran, Gerald	V s	*Holden*	
*Teti, Alfred George, Jr.	V 56	*Torrington, Conn.*	Estabrook Hall
Tetreault, Napoleon Albert	56	*Sterling, Conn.*	Estabrook Hall
Thamel, Theodore Stone	54		27 Langdon
Thayer, Constance	53	*North Oxford*	Blakeslee House
Theriault, Francis Noel	54	*Manchester, N. H.*	38 Woodland
Thienprasitthi, Praja	55	*Bangkok, Thailand*	Estabrook Hall
Thomas, Daniel Walter	53		5 View
Thomashow, Saul Leonard	56		965 Pleasant
Thompson, Richard Gerald	56		3 Minthorne
Thompson, Shelby Walker	56	*Wellesley*	
Thurston, Anthony Warren	V 54	*Morningdale*	
Tibbetts, Robert Austin	55		6 Salisbury Crag
Tomajan, Carol	55	*Holden*	
Tomolonis, Albert Joseph	V s	*Buzzards Bay*	9 Grove Ridge Path, Shrewsbury
Tonseth, Harold Leif Eric	54	*Marlboro, N. H.*	37 Forest
Trachtenberg, Naomi Etta	56	*Brooklyn, N. Y.*	Woodland House
Tracy, Holmes Vinton	54	*Dudley*	
Traina, Angelo John	56	*Flushing, N. Y.*	Estabrook Hall
*Trask, Harvey Julian	55	*Upton*	
Tremblay, Gilbert Paul	55	*Leominster*	
Tromovitch, Theodore Albert	53		24 Orient
Trowbridge, Anthony Dyke	V 55		12 Tuller Rd.
Tucker, Grady Oscar	G F	*Campbellton, Fla.*	8 Crystal
Turnbull, Elliott Dean	53	*Clinton*	
Ungar, Judith Ann	53	*Brooklyn, N. Y.*	Woodland House
Van Blarcom, Shirley Rae	G S	*New York, N. Y.*	24 Gates
van Leeuwen, Adrian Eric	54		9 Euclid Ave.
Vierstra, Andrew, Jr.	56	*Whitinsville*	Estabrook Hall
Villa, Luis Alberto	55	*Medellin, Colombia*	11 Charlotte
Von der Heide, John Thomas, Jr.	V 54	*Scarsdale, N. Y.*	16 Marble
Von Holt, Henry William, Jr.	V Ps F	*Portland, Ore.*	11 Hawthorne

Name	*Classification*	*Home Address*	*Local Addres*
Waddleton, William John	V 56	*Oxford*	
Walker, Bertram Braithe	54	*Moneague, Jamaica, B.W.I.*	4 Newpor
Wall, Gregory Wayne	56	*Rochester, N. Y.*	Estabrook Hal
*Ward, Philip Harold, Jr.	56	*Auburn*	
Warden, William Ernest	55	*Oxford*	
Warms, Harry James	V 53		18 Fairhaven Rd
Warner, Joseph David	V s		21 Bridgepor
Warwick, Joan Edna	55	*Upper Saddle River, N. J.*	Blakeslee Hous
Webster, Charles Ellison	V 53	*Whitinsville*	
Weed, Amorette Grace	53	*Westboro*	
Weiner, Paul	V Ec F	*Malden*	40 Richard
Weiss, Leon Paul	V 55	*Conshohocken, Pa.*	1020 Mai
Weisselberg, Edward Bernard	56	*Leonia, N. J.*	Estabrook Hal
*Weitzel, Robert Daniel, Jr.	H S	*Harrisburg, Pa.*	11 Hawthorn
Weller, Arnold Clare, Jr.	54	*Rutland*	35 Maywoo
*Wentworth, Raymond Charles	55		111 Clar
West, Gilbert Lorenzo, Jr.	54	*Pittsfield*	21 Shirle
i/ Westerl~~u~~nd, William Thomas	56		8 Bancrof
Wheeler, Diane Eleanor	53		11 Dove
Wheeler, Dorothy Ann	53		11 Dove
Wheeler, Roy Harold	54		6 Cheeve
White, Richard Andrew	V 53	*Leominster*	6 Downin
Whitney, Alden Eames	55		4 Saxon R
Whitney, Dorothy Nina	55	*Oxford*	Fanning Hous
Whitney, Richard Dana	55	*Paxton*	
Wiberg, Sven Joseph	V 56		33 Montagu
Williams, Harvey Louis	54		538 Mil
Williams-Baffoe, Charles	Ec g	*Koforidua, Gold Coast*	86 Woodlan
Williamson, Janet	53		3 Wentwort
Wilson, Kenneth Robert	55	*Townsend Harbor*	16 Marbl
Wilson, Mary Tewksbury	Ps g	*Amsterdam, N. Y.*	122½ Blithewood Av
Winter, Lewis Jasper	V G F	*E. Stroudsburg, Pa.*	171 Woodlan
Witt, Albert Vito	V 53	*Leicester*	
Wolske, Janet Frederika	54	*Holden*	
Woodis, Ruth Grosvenor	Ed g		26 Havilan
Wray, Norman Leslie	54	*Wilkinsonville*	
Wright, Robert Lewis	56		84 Ma
Wylan, Louise Mary	56	*Long Island City, N. Y.*	Fanning Hous
Yakutis, Robert Kasimir	53		20 Crescen
Yarrington, Ruth Avis	56	*Grafton*	
Young, (Mrs.) Helen Troy	53		53 El
Young, Manoog Solomon	V H g	*Brookline*	
Young, Maurice	55	*Arverne, N. Y.*	100 Woodlan

Name	*Classification*	*Home Address*	*Local Address*
Zakrzewski, Walter, Jr.	54		53 Upsala
Zaltas, Arnold Irving	55	*Natick*	47 Midland
Zamanigian, Elizabeth Barbara	56		118 Eastern Ave.
*Zenzefilis, Virginia E.	56	*Athens, Greece*	78 May
Zetterlund, Russell Paul	53		116 Purchase
Ziemann, Dorothy Mary	H g	*Springfield*	
Zimavicius, Jurgita Constance	53		858 Main
Zolnowski, Elizabeth Ann	55		59 Seymour

II. GRADUATE STUDENTS, COLLEGE STUDENTS AND SPECIAL STUDENTS IN ATTENDANCE DURING THE SECOND SEMESTER ONLY

Name	*Classification*	*Home Address*	*Local Address*
Adamsky, John Jr.	V 54	*Auburn*	
Agulnick, Arnold	V Ch s		20 Granite
Almasian, Anthony H.	V 56	*Massena, N. Y.*	40 Border, Whitinsville
Ames, Richard P.	Ch s	*Hudson*	
Andreson, Irene	FA s		272 Highland
Ayada, Shusaku	Ec S	*Shikoku, Japan*	4 Englewood Ave.
Bennett, Elinor Jean	Ec s		30 Varnum
Beren, Maurice C.	Ch s	*Leominster*	
Berggren, John L.	Ch s		Marshall Hill Rd., Westminster
Bombard, Maureen B.	Ec s		446 Pleasant
Brown, Richard C.	V Ch s		10 Fales
Butkiewicz, Edmund	V s		30 Forbes
Butler, Ralph	B s	*St. John's, Newfoundland, Can.*	Box 456, So. Lancaster
Callahan, Bernard Dennen	V 54		10 Farnum
Carapetian, Jean Y.	56	*Teheran, Iran*	173 Main
Carrigan, Patricia R.	Ec s		12 Perkins
Carron, Morris	V Ch s		27 Knowles Road
Chang, Sen Dou	G g	*Taipei, Formosa*	86 Woodland
Charbonneau, Philip P.	Ch s	*Northboro*	
Cosman, Henry Giles	55	*Framingham*	
delaFuente, Visia Elvia	G g	*Nuevitas, Cuba*	1020 Main
Del Rosso, Stephen	V Ed g	*Dorchester*	270 Plantation
DeMerritt, Charles Allen, Jr.	V 55	*Norfolk*	6 Downing
Doherty, Lorraine M.	Ec s		409 Chandler
Downey, Joyce Mary C.	s		118 Tower
Duchesneau, Eugene Alfred, Jr.	Ch s	*Leominster*	
Dworman, Ellis David	56	*Cherry Valley*	
Erickson, John R.	Ch s		704 Grove

Name	*Classification*	*Home Address*	*Local Address*
Flynn, Joseph Michael	V Ch s		69 Fairfax Rd.
Gerden, Helen	Ec s	*Westboro*	
Good, Robert E.	56	*New York, N. Y.*	Oliver
Gramlich, Michael Joseph	V 56	*Bronx, N. Y.*	20 Gates
Greelish, Virginia Ann	Ec s		11 Derby
Griffin, Barbara	B s	*Venezuela, S. America*	Box 244, So. Lancaster
Guido, Elsa M.	Ec s	*Milford*	
Guy, Robert W.	V Ed s		14 Highland Terrace
Jandron, Roland Leo	V 53	*N. Oxford*	
Karaku, Demeter Theodore	V 54		43 Abbott
Kelley, Joan M.	Ec s		29 Windsor
Komins, Mrs. Joan Ruth	s		3 Wyman
Lafler, Robert Edward	Ch s	*Charlton City*	
Lancey, Roderic C.	V Ch s	*W. Townsend*	197 S. Flagg
Leahey, Dorothy R. (Mrs.)	Ec s		6 Hermitage Lane
Levitsky, Ira S.	56	*Brooklyn, N. Y.*	Estabrook Hall
Listewnik, Henry Vincent	V Ch s		407 June
Littlefield, James Allen	B s	*Leicester*	
Lofstedt, Martha E.	Ec s		1 Carlsted
Logan, Eileen M.	Ec s		35 Burncoat
Lukshis, Aldona Patricia	Ec s		1288 Main
Madaus, George F.	H g		41 Forbes
Marks, Ronald R.	V 54	*Waban*	40 Richards
Nelson, Polly Katherine	53	*Adams Basin, N. Y.*	150 Woodland
Noumoff, Samuel Joseph	56	*Brooklyn, N. Y.*	Estabrook Hall
Oberg, Richard Iver	Ed g		17 Watson Ave.
O'Connor, Florence M. (Mrs.)	Ec s		596 Park Ave.
Otto, Adrienne	55	*Shrewsbury*	
Panitz, Fred B.	V 56	*Brooklyn, N. Y.*	Estabrook Hall
Patt, Herman George	B g	*West Brookfield*	
Pierzchala, Walter A.	B s	*Dudley*	
Plourde, Roger Paul	V Ch s		12 June St. Terrace
Rauscher, William Charles	56	*Stratford, Conn.*	32 Oberlin
Ribner, Herbert	V Ch s		34 Vassar
Richardson, Edward C.	V Ch s	*Clinton*	
Rose, Pauline S. (Mrs.)	Ec s	*Holden*	
Rowse, Robert Alfred	V Ch s		15 Steele

Name	*Classification*	*Home Address*	*Local Address*
Sandman, Abraham Eli	Eng s		35 Dellwood Road
Shea, Eleanor (Mrs.)	Ec s		36 Elm
Sheleg, Boris	56	*Stratford, Conn.*	32 Oberlin
Stinchfield, Carleton Paul	Ch s		40 Gifford Drive
Stone, H. Nathan	V Ch s		10 Rochelle
Storch, Robert S.	56	*Brooklyn, N. Y.*	Estabrook Hall
Streichler, Allan M.	56	*Brooklyn, N. Y.*	Estabrook Hall
Suzuki, Yukiko	56	*Tochigiken, Japan*	Woodland House
Sweet, Gloria Constance	Ec s		64 Oread
Sweet, Janice Marie	Ec s		11 Holland Rd.
Shaw, (George) Eleanor	Ed F		301 May
Teixeira, Leonard F.	55	*Hudson*	
Traub, Mrs. Lois Speckter	55	*Southbridge*	
Tucker, Edwin C.	Ch s		380 May
Utsunomiya, Takeshi	56	*Tokyo, Japan*	221 Highland Ave., Somerville
Valente, Louis John	56	*Milford*	
Vick, Alberta W. (Mrs.)	Ec s	*Holland*	
Wallin, Carl Alfred S.	Ch s	*Cherry Valley*	
Washburn, Malcolm Edward	Ch s	*Northboro*	

III. STUDENTS IN RESIDENCE LESS THAN ONE SEMESTER

1952-53

Adams, John Daniel	54
Binkiewicz, Longin Wladyslaw	V 55
Bowles, Gerald George	55
Doyle, Louis Logue	s
Fleming, Stephen Joseph	V 54
Foster, William Francis, Jr.	V Ec F
Fraser, James Leon	G S
Frost, Peter Jack	Ec S
Hatfield, Buell Gilbert	V 53
Johnson, Gordon Paul	Ch g
Kearns, Margaret Mae	55
Kerxhalli, Steven Thomas	54
LeBeau, Arthur J.	s
Levin, Jackie Joseph	54
Nordwell, Clifford Irving	53
Pearson, Robert Lewis	56
Peterson, Robert Andrew	54
Polanik, John Adam	V 55
Singer, Edward Joseph	56

IV. SUMMER SCHOOL STUDENTS (1952)

Al-Ani, Khattab S., Baghdad, Iraq
Alden, William C., Worcester
Andreson, Constance E., Worcester
Averill, Joan M., Worcester

Barker, Robert B., Worcester
Beringer, Jane M., Worcester
Blais, Frederick W., West Stewartstown, N. H.
Boffoli, Americo S., Worcester
Boucher, Phyllis R., No. Grafton
Bowen, Walter E., Spencer
Brooks, Hugh C., Seattle, Wash.
Browning, Walter J., Worcester
Burkill, Gracia M., Spencer
Burnham, Alfrieda D., Worcester
Burton, Warren H., Jr., Fort Defiance, Ariz.
Bush, Everett H., Westfield
Butler, Philip E., Worcester

Callahan, Patricia C., Worcester
Carlson, Elizabeth A., Worcester
Carlson, Robert J., Worcester
Cipriani, Francis P., Clinton
Cochran, Dorothy M., West Brookfield
Cockroft, Grace A., Saratoga Springs, N. Y.
Cole, Martin S., Worcester
Conti, Emma M., Waltham
Coogan, Mary C., Worcester
Cormier, Carlton F., Winchendon
Croman, Earl L., Clinton
Curran, Maryjane E., New Rochelle, N. Y.
Cushing, John D., Northfield, Vt.

Dahlstrom, Arvid E., Tannersville, N. Y.
Davis, Roberta L., Worcester
Derosier, Robert F., Leominster
Devaney, James J., Worcester
Dix, Eugene C., East Douglas
Downes, George A., Jr., Worcester

Eaves, Alyne M., Southbridge
Erickson, George C., Gardner

Fischer, Joyce K., Bridgeport, Conn.
Ford, Ruth E., Worcester
Fromm, David, Greeley, Colo.

Gagne, Robert P., Andover
Gackell, David C., Worcester
Giuffrida, Matthew R., Worcester
Goldman, Norma J., Worcester
Goss, Robert W., Fitchburg
Gould, Loren N., Worcester
Graf, Robert E., Southbridge

Haglund, A. Carolla, Waterville, Me.
Haldeman, Abigail B., Ventnor, N. J.
Hamilton, (Mrs.) Helen M., West Boylston
Harrington, Mabel G., Shrewsbury
Harris, Charles E., Worcester
Hastings, Joseph P., Worcester
Hayeck, George N., Worcester
Hebb, Douglas C., Worcester
Hebert, Raymond J., Leominster
Hutchinson, Robert H., Worcester

Johnson, Donald E., Holden
Johnson, Margery R., Worcester
Johnson, Wallace A., Auburn

King, Valerie, Worcester
Kingsbury, Mildred L., White River Junction, Vt.
Kistler, Elizabeth J., West Boylston
Kistler, Walter A., West Boylston

Lasmane, Elfrida, Holden
Lavallee, Richard D., Webster
Laws, John S., Worcester
Lee, Dou H., Seoul, Korea
Lockhart, John, Worcester

MacFarland, Jameson D., Worcester
Mangano, James J., Worcester
Manoog, John C., Jr., Worcester
Marion, Raymond J., Spencer
Martin, Curtis V., Leicester
Mason, Howard M., Framingham
McMahon, Paul J., Worcester
Merriam, George H., Worcester
Michniewicz, Joseph A., Worcester
Murray, Paul W., Worcester

Nagle, Mary E., Worcester
Nasse, George N., Southbridge
Nazarow, John P., Gardner
Newell, Alan H., Worcester
Noone, James J., Worcester

Olson, Betty M., Auburn
Ozimek, Henry A., Suffield, Conn.

Pappas, Steve C., Southbridge
Pietro, John J., Worcester
Poulsen, Roy G., Dorchester
Prensner, Richard W., Worcester
Putnam, Patricia A., Worcester

Quackenbush, Ralph A., Worcester

Reidy, David R., Worcester
Richards, Janet M., Fitchburg
Ringer, Fay M., Worcester
Riordan, Joan F., Holden
Rollins, Joseph J., Worcester

Saltonstall, Nathaniel, II, Spencer
Samaha, Frederick J., Worcester
Schwab, Donald G., West Sutton
Sharfman, Susan I., Worcester
Shaughnessy, Anna C., Worcester
Shaw, Arnold R., Worcester
Sher, Esther F., Worcester
Silverman, Jack L., Chestnut Hill
Simonian, Jean M., Worcester
Smith, John C., Auburn
Smith, Raymond R., Westboro
Smolski, Chester E., Worcester
Starbird, Myron E., Farmington, Me.
Symonds, Merrill A., Worcester

Tait, Jeanne, Worcester
Trask, Harvey J., Upton

Weiner, Robert S., Ossining, N. Y.
Weller, Arnold C., Jr., Rutland
West, Gilbert L., Jr., Pittsfield
West, Togo D., Winston-Salem, N. C.
Williamson, Janet, Worcester
Wolske, Janet F., Holden
Woodall, J. Arden, Paxton

Youngren, Betty S., Worcester

Zakrzewski, Walter, Jr., Worcester
Zentgraf, Marion E., Dudley

SUMMARY 1952-53

			Men	*Women*	*Total*
	Men	Women	404	201	605
Freshmen	110	62			
Sophomores	89	34			
Juniors	110	48			
Seniors	95	57			
Graduate Students			108	31	139
Special Students			44	29	73
Summer School (1952)			82	42	124
Total			638	303	941
Less Duplications			29	17	46
Net Total			609	286	895

Degrees Conferred

In the Calendar Year 1952

BACHELOR OF ARTS

Jerrold Leonard Ackerman
Vernon Ahmadjian
John Christo Allabashi
Barbara Marianne Allstrom
Walter Roger Anderson
  with Honor in General Course and with Honors in Economics and Sociology
Elliot Baker
Howard Bennett Benjamin
Peter Alfred Benson
Evelyn Mae Bergstrom
Amilcare Biancheria
  with Honors in Chemistry
Frederick Allen Bliss
Samuel William Braverman
Dorothy Ann Brennan
  with Honor in General Course
Marvin Sidney Brooks
Richard Austin Cain
Margaret Jean Carey
Robert Vincent Carey
  with Honor in General Course
Kenneth Gustaf Carlon
Albert Merrill Cederlund
  with Honors in Economics and Sociology
George Edward Cormier
George Alfred Coupe
Rose Dagirmanjian
  with High Honor in General Course
George Victor Delle
Herbert Drucker
Paul Vincent Durkin
Frederick Aaron Eisenberg
Jewel Ann Emory
  with Honors in English
Lawrence Fahey
Margaret Weir Fairbank
  with Honor in General Course and with Honors in Geography
Joann Marie Foley
Raymond Wellington Forgit
Joyce Jacqueline Freitag
Eric Martin Friedmann
Walter Irving Gay
Robert Henry Gendreau
Louis Domenic Giannini
Paul Alan Goodale
Harold Burnham Gordon
Patricia Burritt Gray
Robert Wilson Greenlaw, Jr.
Richard Lyman Gustafson
Virginia May Hegvig
Barbara Ann Hill
  with Honor in General Course and with Honors in American Civilization
Nahida Rafiq Hilmi
Yale Albert Hirshberg
Corlyn Barnes Hokans
Leonard Ray Hokanson
James Vernon Holton
Mary Elizabeth Hutchinson
Helen Marie Hyytiainen
  with Honor in General Course
Harold Charles Jigarjian
Arlene Fouracre Johnson
Arne Jacob Johnson
Aram Robert Kaloosdian
Robert John Kasabian
Evelyn Ann Katz
Ruth Marion Katz
Geraldine Mary Kelleher
Raleigh Burton Kerber
Robert Edward King
Martha Helen Koprowska
George Kozak
  with High Honor in General Course
Bert Woodworth Lamb, II
Richard Alan LaPierre
Wilma Odell Layng
Paul Joseph Lynskey, Jr.
Ann Kathleen MacCarthy
James Carson McCourt
Philip George Meissner
Joseph Meyer Mendelsohn
John Peter Meskunas
Edmund Boniface Mioduszewski
Mary Patricia Mitchell
  with Honor in General Course
Robert Anthony Mongilio
  with Honor in General Course
Carmen Ofelia Morales
Daniel Joseph Morrison
Marvin Meyer Neiditz
Violette Nicholas
Ralph Everett Noble
Richard Leonard Morton Novitch
Paul Vincent O'Brien, Jr.

John Joseph O'Connell
Eleas William Patronas
Janet Ann Patterson
  with Honor in General Course
Paul Marsh Patterson
Richard Waldo Perron
Edward Francis Petrell
Louise Dolores Ponty
Stanley Ragoza
Norman James Richardson
  with High Honor in General Course and with Honors in International Relations
Claire Maureen Roche
  with High Honor in General Course
Barbara Elizabeth Rose
Helaine Lois Rothblatt
James Grogan Ryan
William John Salem
Joseph Samara
Marguerite Ann Scannell
Daniel Anthony Scola
Harry Simonian
Robert Eugene Sisson
Arthur Joseph Smith
Margaret Augusta Smith
  with Honor in General Course and with Honors in American Civilization
Robert Charles Somers
Harlan Emory Stearns
Richard Arthur Stolnacke
Verner Raymond Strandberg
William Henry Sturrup
Richard Patrick Sullivan
Helen Eugenia Watkins
Doanda Risley Wheeler
James Saul Wiener
  with High Honor in General Course
Priscilla Rosalie Jackson Wilson
Lester Zitowitz
Walter Peter Zmyslowski

BACHELOR OF BUSINESS ADMINISTRATION

Albert John Arsenian
Richard Marsh Austin
Hildreth Caldwell Bailey
Arnold Renaldo Carlson, Jr.
William Clark Carmody
Frank Anthony Carofanello
Christopher John Matthew Chin
Donald Howard Clegg
Philip Joseph Collins
Roger Marcroft Corey
Raymond Roger Cournoyer
Chester Joseph Davidson
Groves Bradford Davis
Sarkis DerBedrosian
Arthur George Dukakis
Stephen Boris Fesuk
Gerald Saul Fisher
Albert Abraham Gammal, Jr.
William Francis Michael Glennon
  with Honor in General Course
John Francis Halloran
Robert Atherton Howatt
Barbara Fontaine Ingebretsen
Edward Martin Ingebretsen
  with Honor in General Course and with Honors in Business Administration
Harry Ottway Ireland
Marvin Allen Jamron
Donald Algerd Kamandulis
Paul Karagheusian
Charles Karamoutopoulos
Sidney Klein
Hugh Harold Lawson
Gerald Golden Marcus
Robert Joseph McAulay
  with Honor in General Course
John Courtney Mee
George Ernest Mrosek
  with Honors in Business Administration
Albert Burke O'Donnell, Jr.
Robert Alden Ostergaard
  with Honors in Business Administration
Pehr Albert Pearson
George Clinton Putnam
Howard Miller Sachs
Alexander John Saitas
Charles Schneider
Ivan Ellis Seder
Harold Dwight Smith, Jr.
Stephen Adams Smith
Robert Malcolm Steinberg
Kenneth Harold Steingold
David Kent Stratton
Joseph Paul Vuona
David Wheeler
  with Honor in General Course and with Honors in Business Administration
Marcia Paul Wolfson

MASTER OF ARTS

Carroll Marden Abbott
Donald Lockhart Atwell
Mildred Settle Bradford
Franklin Coit Butler, Jr.
Jen Hu Chang
Philip Everett Charron, Jr.
Richard Clyde Courtney
Sally Lucia Fisher
Henry Francis Joseph Fitzmaurice
John Hurley Flavell
Carol Rita Gabrielson
Aristotle George Gazonas
Raymond A. Haddad
John Theodore Harsch
David Hamlin Hokans
John Thomas Hughes
Vincent Leo Hughes
Kayla Miriam Jaffe
Louis Allman Jones
Edith Freund Kaplan
Josephine Elaine Lorys
John Hurley Madaus
Anthony Richard Manyak
Norman Barry Marshall
Thein Maung
Ina Louise McGregor
John Burnham Miner
Paul Beach Mitchell
Walter Kenneth Morrison
Thomas Basil Mulholland, Jr.
Noyuri Ohtsuka
Nicholas Louis Onorato
Paul Porochniak
Peter T. Sardo
Michael John Skrypa
Eleanor Magdalene Stochaj
Ashton Munroe Tenney
James Little Tolley
Nancy Mayo Waterman
David Kenneth Wetherbee
Doreen Mary Yorkston
Manoog Solomon Young

MASTER OF ARTS IN EDUCATION

Charles Francis Daly
Lawrence Joseph Meehan
Waldo Everett Perry
Raymond Andrew Plotczyk
James Joseph Powers, Jr.
Donald Sargent Rogers

DOCTOR OF PHILOSOPHY

Ali Ardehali
Siddik Abdul Rahman Atrushi
Mildred Marie Danklefsen
Francis Edward Elliott
Eric John Hanson
Francis Leland Jones
George Lewis John Langdon
Joseph Armand Martus
Ricardo Bernardino Morant
Cornelius Bernard Murphy
James Algan Shear
James Elmon Vance, Jr.

HONORARY DEGREES

Howard Mumford Jones	Doctor of Letters
Solomon Lefschetz	Doctor of Science
Richard Greeley Preston	Doctor of Humane Letters

SUMMARY

Degrees in Course	
Bachelor of Arts	114
Bachelor of Business Administration	50
Master of Arts	42
Master of Arts in Education	6
Doctor of Philosophy	12

Honorary Degrees	
Doctor of Letters	1
Doctor of Humane Letters	1
Doctor of Science	1

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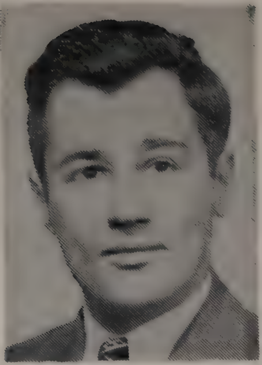

CHESTER HANDLEMAN

Special Committees

dvance Ticket Sales: Chester
ıdleman, Chairman; Jack Wolf-
co-chairman. Irving MacShaw-
Vincent Russell, Jewel Ann
ry, Harry Foxhall, Clifford
ith, Matty Stepanski, Janet
erson, Forest Alexander, Rob-
Jordan, Carolyn Burns, Philip
il, Liberty Koskinas, Lester
on, Louise Theodore, George
on, Henry Signor, George Mer-
, Carol Amsden, Stanley Schorr,
Thornton, George Winches-
Jean Tuttle, Robert Cannon,
ginia Amsden, Claire Cassidy,
Granger, Otto Steinhilber,
hard Gunter, Earl Reiman,
y Higgins, Marie Courtney,
e Fleming, Walter Basiul,
Swartz, Bob Rivers, George
a, Kathleen Burns.

Special Thanks to Irving Mac-
vson for selling 17 tickets—Chester Handleman, Chairman, Advance Ticket Sales.

Finances: Maxwell B. Seder

The Boheme Committee of about 50 students did the decorations—Don Aharonian in charge.

Food Committee: Dean M. Hazel Hughes, Honorary Chairman; Joan Flaherty, Chairman, Nancy Higgins, Carol T. Amsden, Virginia R. Amsden, Marie Fleming, Marie Courtney, Barbara Callan, Carolyn Burns, Harold Crockett, special assistant, also H. Gordon Hargrove.

Entertainment: Janet Companion, in charge. Shirley Matson, Mr. and Mrs. Lester Nelson, Minerva Sarando, Claire Cassidy, Larry West and Evelyn Bergstrom.

Alumni Cheer Leaders: Matty Stepanski, Jake Merzigian and Ed Tivnan.

President Sanford and Faculty

It has been suggested that some of our older graduates might like to have the names of the members of the faculty shown in the faculty picture published last month.

First row left to right: Geo. F. White, Chemistry, Phillip H. Churchman, Romance Languages, Frank B. Williams, Mathematics, Charles B. Randolph, Latin, Frank H. Hankins, Economics, Clifton F. Hodge, Biology, Edmund C. Sanford, President, James P. Porter, Dean, Samuel P. Capen, German, Prentiss C. Hoyt, English, Haven D. Brackett, Greek.

Second row left to right: Leslie C. Wells, Romance Languages, Norman Scott Gras, History, Carey E. Melville, Mathematics and Physics, William Marion Hudson, Political and Social Science, Leroy C. Ames, English, Irving A. Field, Biology, John C. Hubbard; Physics, George H. Blakeslee, History, Radoslav A. Tsanoff, Philosophy, Benjamin S. Merigold, Chemistry, Charles E. Lyon, German, Ernest R. Whitman, Physical Education, Donald Walton Davis, Zoology. Loring H. Dodd, English, was a member at this time but was not in the picture.

Two Professors at Clark Get Study Grants

Dr. Heinz Werner, chairman of the department of psychology, and Dr. Seymour Wapner, associate professor of psychology, have been awarded a grant of $20,757 by the National Institute of Mental Health, in order that they may continue their research project on perception-personality relations. The grant will enable Clark's psychology department to become a center of research in new methods of studying personality through investigation of the manner in which a person perceives the world. The award by the institute affiliated with the Public Health Service of the Federal Security Agency, was made to the two psychologists on the recommendation of the National Advisory Mental Health Council. It is part of a long-range research program which the institute has supported since 1950 with yearly grants to Clark which total $65,253 to date.

Mrs. Mary E. Merigold, wife of Dr. Benjamin S. Merigold, professor emeritus of the Clark Chemistry Department, died December 3rd at her home, 21 Maywood street, Worcester. She was a former high school teacher of botany and physiology. She taught at Worcester English High School and the High School of Commerce, retiring in 1930. Mrs. Merigold graduated from Smith College in 1894 and did graduate work at Cornell University. She was a member of the Clark University Woman's Faculty Club, Worcester Smith College Club, and a life member of Worcester Woman's Club.

SPECIAL REMINDER

Our books for the 1951-2 Alumni Fund close on December 31. Have you sent in a contribution? It will be welcome and it will help a lot.

GOLDEN JUBILEE REUNIONS

CELEBRATING CLASSES

1908	**1913**	**1918**	**1923**	**1928**
1933	**1938**	**1943**	**1948**	**1952**

LET'S MAKE EVERY CLASS GATHERING ONE TO BE REMEMBERED. GET THE SPIRIT OF THE GOLDEN ANNIVERSARY AND PLAN TO COME BACK FOR A SPECIAL GOOD TIME.

PRESIDENT'S 19

Alumni Bulletin

In the interest of economy my report for 1951-52 is included in this number of the ALUMNI BULLETIN and will not be issued as a separate publication.

We hear and read so often about the plight of the independent college and university under present conditions that further elaboration of this theme may seem unnecessary. I shall not employ the word "plight" or any of its synonyms in this report but, nevertheless, I am unable to avoid entirely the consideration of some serious problems with which we are confronted. In retrospect, I am convinced that we were wise in launching the Seventh Decade Fund a year and a half ago, and the money which has been received through that effort is already an important factor in maintaining the health of the institution. Quite apart from this effort to increase our capital funds, we have found it impossible in recent years to keep our annual operations in balance. Fortunately, during the period immediately following World War II, there were years when income exceeded expenditures, and therefore a surplus was created which has been sufficient to offset recent losses. During the past year, however, it became apparent that some serious thinking must be done with respect to our plans for the immediate future. At the outset of this report, therefore, I wish to refer to some changes in our administrative organization which reflect a part of that planning.

ADMISSIONS

First. we have created the new position of Assistant Director of Admissions and a previous number of the BULLETIN has carried the information that Mr. George H. Merriam '44, has been appointed to that post. The program of admissions in a college includes two phases. One of these has to do with the principles according to which students are admitted. There are admission requirements as regards subject matter pursued in secondary schools, the quality of achievement, and tests indicating aptitude for college work. There is the work of the Admissions Committee, examining candidates in order to decide whether they qualify according to our admission requirements. This phase of our work has been conducted admirably over the years by a committee under the chairmanship of Dean Little.

The other phase of admissions work is concerned with all of those procedures which result in having an adequate number of well qualified students apply for admission. For many years those of us who are intimately acquainted with what goes on in the undergraduate college at Clark have been highly impressed by the quality of instruction and the sound program of education. At the same time we have been greatly disturbed that Clark is not better known and that a comparatively small number of those interested in attending college have adequate information as to what Clark has to offer. It was this realization which prompted us to organize, in 1950, a committee consisting of faculty, administrative officers and alumni to work on this phase of the admissions problem. I shall not give a detailed report on the work of this committee but will mention three things that resulted from its deliberations. For one thing, there is now a well-organized program in which the alumni are participating with respect to interviewing those students in their communities who have made inquiries concerning Clark. In the second place, an excellent booklet entitled "From a Clark University Student's Notebook" was published and distributed widely in secondary schools and among secondary school students. The supply of these booklets has now been exhausted, but the comments were so favorable that plans are under way to have a new and revised edition available. A third aspect of our work has been the entertainment of relatively small groups of high school students, together with principals and guidance directors, on the campus. Six such groups were entertained in 1950-51 and eight during the past year. The general pattern was to receive the group at the University about four o'clock in the afternoon, followed by a brief tour of the campus, including one exhibit or demonstration. The entire group then were served a buffet supper at my home and we spent the evening discussing with the students their college plans and, in particular, the kind of education offered at Clark. Both students and teachers have been highly appreciative of this as a service in educational counseling.

Despite the good work of this committee it was agreed that our efforts were still insufficient. The more the problem was analyzed, the more clear it became that it was necessary to have some one individual giving all of his time to this work. This was the background of our decision to appoint Mr. Merriam as Assistant Director of Admissions and to define his task as primarily concerned with the phase of admissions work which I have just been describing. Our objective is to increase substantially the number of applications from able students who can profit from Clark's undergraduate program. Furthermore, all of this is intimately connected with the fiscal health of the University. A study recently completed by the Commission on Financing Higher Education includes the statement that all independent colleges and universities have become more and more dependent upon tuition fees. During the past twenty years there has been a marked increase in the proportion of total income derived from this source. Clark is no exception to this rule. I wish to point out, however, that we are continuing with the long established policy of providing excellent education at relatively low cost to the student. Although our tuition has increased from $300 to $500 during the past six years, we are still charging less than most of the Eastern liberal arts colleges. Our new admissions program, then, is one part of our planning and, if successful, will be of considerable help in solving our problem.

DEVELOPMENT

The decision concerning a second phase of our plan stemmed from our experience with the Seventh Decade Fund. It has become clear that under present conditions a University Development Program must be continuous rather than sporadic. Referring again to the report of the Commission on Financing Higher Education, it is evident that all colleges and universities need more resources in order to serve the nation effectively, and that they must continually find new sources of income. Planning and administering a sound development program is surely more than a part-time job for individuals who are already heavily burdened with responsibilities. We have decided, therefore, that the full-time effort of at least one person is required for this work. With this in mind, the Board of Trustees approved the appointment of Robert P. Anderson as Assistant to the President. Mr. Anderson will be concerned with the whole range of the University's external relations. In an

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president, Roland A. Erickson '35, secretary, and Raymond T. Gifford '16, treasurer.

PUBLIC EVENTS

The Open House held in April 1951 was so successful that a similar event was held in April of this year. Every department in the University had exhibits or demonstrations, with special programs sponsored by the Fine Arts Department in Atwood Hall. It is estimated that 2000 people attended, all of whom were delighted with the program. A general reception under the leadership of the Advisory Board of the Women's College was held in the Alumni Gymnasium.

One of the most pleasant events of the year was the dinner in honor of Dean Homer P. Little, arranged by the Worcester County Alumni Club. Dean Little was completing thirty years of service to Clark, and the large number of alumni and friends who attended the dinner provided a fitting tribute to him.

The sixty-second annual Commencement was held in the Worcester Municipal Auditorium on Sunday afternoon, June 8. The Commencement Week activities included the Senior Banquet, the Senior Prom, the Alumni Association meeting, the Alumni Luncheon, and the Class Day Exercises. On Sunday morning the Baccalaureate service was held in Atwood Hall with Rev. Richard Greeley Preston of All Saints Church, Worcester, as the preacher. At the Commencement exercises Professor Howard Mumford Jones of the Department of English at Harvard University gave the address, and the following honorary degrees were conferred: Rev. Mr. Preston, Doctor of Humane Letters, Professor Jones, Doctor of Letters, and Solomon Lefschetz, Ph.D. '11, H.B. Fine Research Professor and Chairman of the Department of Mathematics at Princeton University, Doctor of Science. In addition, degrees were conferred upon 224 members of the graduating class as follows: B.B.A., 50; A.B., 114; M.A. in Ed., 6; M.A., 42; Ph.D. 12.

CONCLUSION

In submitting this, my sixth annual report, I am acutely conscious of and grateful for the loyal coöperation of the trusteees, the faculty, the students, the alumni, and the many friends of Clark.

HOWARD B. JEFFERSON
President

D *of* ALUMNI

'26

Dr. Ruth E. Baugh, (A.M., Ph.D. '29), is working on a textbook on the Geography of California. She lives in Westwood Village and teaches at UCLA.

Dr. Bert James Loewenberg, (A.M. '27), professor of American History at Sarah Lawrence College, Bronxville, New York, will be lecturing at Ruskin College, Oxford, England, during the first term of 1952-1953, and at the University of Jerusalem in January 1953. Dr. Loewenberg received his Ph.D., in 1931 from Harvard.

'27

Stephen Beaton, (A.M.Ed. '46), principal of Millbury (Mass.) High School, was elected president of the Worcester County Teachers Association at the 8oth annual convention in the (Worc.) Auditorium November 7th.

Miss Earline Dearth Ford of Plymouth, N. H., and Henry Francis Eagan, (A.B., A.M. '28), of Bristol, were united in marriage October 25th at Our Lady of the Lakes Church in Lakeport. The bride is the daughter of Mr. and Mrs. Earle Ford of Plymouth, and for several years taught in the Bristol elementary school. She was graduated from Plymouth Teachers College. Mr. Eagan is now technical director at the International Packings Corporation. He is the son of Michael Eagan of Worcester and the late Mrs. Eagan. The couple are making their home in Charles B. Johnson's house on High Street, Bristol.

'31

William C. Haddad, (A.M. Ed. '42), the son of Mr. and Mrs. K. J. Haddad of Worcester, is a graduate of North High School, and the Boston University Law School in 1951. He is a teacher at the High School of Commerce, teaching law, chemistry and science courses. In World War II he spent three years in the Navy and in the South Pacific and Okinawa.

Stephen T. Riley, (A.M. '32), Librarian at the Massachusetts Historical Society, visited the campus on October 13th.

Walter R. Sherman, assumed the post of PCA Western Area Director, Pennsylvania Citizens Association for Health and Welfare, on June 1st, with headquarters at 200 Ross street, Pittsburgh, Pa. Mr. Sherman received his graduate training in social work at Western Reserve University, Ohio. He served as caseworker in the Cleveland Humane Society and as supervisor at the Family and Children's Services in St. Louis. He was caseworker and supervisor at Woodfield Children's Village, Bridgeport, Conn., and Superintendent of the George Jr. Republic in Freeville, New York. During the war, he was the field representative for Family Service Association of America, serving as consultant for war-impacted communities, and during this period directed the work of two local family agencies. Mr. Sherman is married and has three children.

'32

Archille H. Biron, has been elected Treasurer of Maine chapter of American Association of Teachers of French. He will serve on the National Committee on Ritual and Insignia of Phi Sigma Iota, National Romance Language Honor Society.

'33

Perry B. Hall, executive secretary, Family and Children's Service, 725 Wabash Bldg., Pittsburgh, Pa., was guest speaker, November 6th, at a Luncheon

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December 1952

REPORT

advisory capacity he will work closely with Mr. Merriam and with the Alumni Office, and will supervise the public relations work. His chief responsibility, however, will be that of working out a long-range development program. Mr. Anderson, who comes to Clark from the Norton Company in Worcester where he was Assistant Director of Publicity, brings with him a background of training and experience admirably suited to his new responsibilities.

With the establishment of this new office, we have moved the headquarters of the Alumni Association to the second floor of the Alumni Gymnasium. Mr. Anderson will be in the office formerly occupied by the Alumni Association staff in the Geography Building across the hall from the President's office.

New England Colleges Fund

Closely related to the Development Program is the recently organized New England Colleges Fund, Incorporated, of which Clark is a member. Within the past three years there has been a rapid growth in the formation of associations of colleges for the purpose of a co-operative solicitation of support from corporations. For the most part these have been associations of liberal arts colleges and have been organized on a state basis. The first regional association is the one recently formed in New England with twenty-three charter members. The purpose of the association is to seek new funds for the liberal arts program in the several member colleges, the funds to be used for annual operating expenses.

Sponsored Research

A phase of the University operation which may become a major item is a series of research projects sponsored by foundations, industry, and government agencies. A recent bulletin from the American Council on Education states that "sponsored research has become a factor of ever-increasing importance to institutions of higher education ince the beginning of World War I. The Federal Government, in particular, through such agencies s the Department of Defense, the Atomic Energy Commission, and he National Science Foundation, s now supporting an enormous esearch program in colleges and niversities." Although the total mount of money from such sources t Clark is still relatively small, it as grown from nothing in 1946 to 130,094 in 1951-52. Approximately $100,000 of this total comes from government agencies, and the rest from private foundations and industry. The research projects are in the areas of chemistry, biology, psychology and geography. These grants help to expand the services of the University in basic research. It should be noted, however, that they do not contribute to the regular operating budget.

The Faculty

Thus far my report has stressed the appointments, plans, and operations which have a bearing upon the fiscal problems of the University. Important as these problems are, we must never forget that they are subordinate to the main purpose of the University. Last year, when interviewed on a radio program, I gave the following brief statement as to our primary purposes: "At Clark University we believe that we have two basic functions: as a university it is our business to discover, as a college it is our business to teach. When I say that the primary function of a university is to discover, I am assuming that there are always new frontiers of knowledge. There is always more to be learned, and the knowledge we do have needs constantly to be refined. In order to perform this function of discovery, we must have faculty members with the capacity to carry on basic research and to train young scholars to become research workers. We must have, also, the laboratories, documents, and other facilities essential for this kind of endeavor. At present we have organized research in the physical sciences, the biological sciences, psychology, geography, and the other social sciences. This, then, is our conception of the task of the university.

"As a college our main job is to teach. Teaching, we believe, is a difficult and complicated art, having several facets. To teach means, in the first place, the imparting of knowledge, already acquired, to the younger generation. A good teacher imparts knowledge with insight and imagination. In the second place, teaching involves a process whereby young men and women are led to an understanding of the way in which knowledge may be used to arrive at informed and reliable decisions concerning the important problems of our day. Third, to teach means to induct the members of the younger generation into an understanding and appreciation of and a dedication to those values which undergird a civilized society of free men."

These purposes have been pursued at a high level during the past year. The performance of the faculty—in teaching, in research, in community leadership—has been of the highest quality. Although presently I shall report a few resignations, there has been comparatively little turn-over in the faculty since we became stabilized following the war. I regret to say that our ability to hold our faculty members cannot be attributed to a high salary scale. Despite our best efforts, the continuing inflationary situation in the country renders the level of salaries discouragingly inadequate. Nevertheless, the integrity implicit in Clark's educational program, the atmosphere of scholarship, the provision for democratic procedures in arriving at policy decisions, provide an attractive setting in which the dedicated teacher and devoted scholar may work.

I wish to report the following changes in faculty personnel:

Dr. Victor B. Johnson, for the past five years Assistant Professor of Education and Associate Dean for Men, resigned to accept a position at Muhlenberg College. The administrative responsibilities formerly assumed by Dr. Johnson have been divided among faculty members but mainly between Dr. David Lane, Student Counselor and Director of Placement, and Mr. Merriam, Assistant Director of Admissions.

Dr. Thelma Alper, who for four years was Associate Professor of Psychology and chairman of the Clinical Psychology Training Program, resigned to join the Psychology Department at Wellesley College. An arrangement has been made, however, to retain Mrs. Alper for the present year on a part-time basis until a successor is appointed.

Dr. Roger C. Norton, Instructor in German during the past year, received a Fulbright Award for study in Germany. In his place we have appointed Dr. Alfred W. Beerbaum.

Mr. Walter A. Ramsey, Assistant Professor of Romance Languages for the past four years, and Mr. Edward H. Hastings, Instructor in English for the past two years, have resigned, and because of reduced enrollment in the college they have not been replaced.

Miss Helen J. Elliot, who has been connected with the Clark

University Library for forty-four years, retired as cataloger on the 1st of October.

With the return of three faculty members from leaves of absence, the men who replaced them have accepted positions elsewhere. I refer to Dr. William F. Dowling Jr., Instructor in Government, Mr. Stanford L. Luce, Jr., Instructor in Romance Languages, and Mr. Walter H. Zukowski, Instructor in Economics and Business Administration. Dr. Arthur F. Lucas, Professor of Economics and Director of the Division of Business Administration, returned from a year's leave of absence where he served as Economist with the Select Committee on Small Business of the House of Representatives in Washington. Mr. J. Fannin King, Assistant Professor of Romance Languages, and Dr. Morris H. Cohen, Assistant Professor of Government, returned after a year's leave of absence working under the Faculty Fellowship Program of the Fund for the Advancement of Education sponsored by the Ford Foundation. Professors Vernon Jones and Percy M. Roope were granted sabbatical leaves of absence during 1951-52, Dr. Jones during the first semester and Dr. Roope during the second semester.

For the current year Professors Dwight E. Lee and James A. Maxwell have been granted sabbatical leaves, both for the second semester.

Dr. Marc Raeff, Assistant Professor of Russian History and Language, has been granted a year's leave of absence to do research work in the Far Eastern Institute at the University of Washington, and during his absence Dr. Clara Brahm will teach his courses in Russian Language, and Mr. Samuel M. Osgood the courses in Russian History.

Dr. Samuel Van Valkenburg, Director of the Graduate School of Geography, has been granted a leave for the first semester of 1952-53 to teach at the University of Baghdad in Iraq. While he is away, Dr. Hans Boesch of the University of Zurich will serve as Visiting Professor of Geography.

In addition to full-time faculty members, it has been possible to appoint several part-time instructors in the Department of Psychology, largely because of the special grant for work in the Clinical Psychology Training Program. These include Mr. Theodore Leventhal, Instructor, Dr. Marvin Opler, Visiting Lecturer, Dr. George Klein, Visiting Lecturer, and Dr. Franklin Carter, Psychiatric Consultant, in addition to Mrs. Alper mentioned previously.

During the past year five members of the faculty received promotions in rank. They are Dr. Claude W. Barlow to Associate Professor of Classics, Dr. Robert N. Beck to Assistant Professor of Philosophy, Mr. Donald H. Letendre to Assistant Professor of English, Dr. Marc Raeff to Assistant Professor of Russian History and Language, and Mr. Sheldon Schaffer to Assistant Professor of Economics.

PHI BETA KAPPA

It is a particular pleasure to record in this report the decision of the Council of the United Chapters of Phi Beta Kappa to authorize the installation of a chapter at Clark to be known as Lambda of Massachusetts. The establishment of a Phi Beta Kappa Chapter at Clark would be welcome at any time, but it is particularly appropriate that it is done at the time when we are observing the Fiftieth Anniversary of the undergraduate division of the University. Plans have just been completed for the formal installation to take place on February 2, 1953, with the faculty Phi Beta Kappa group as the charter members of the new chapter.

ADULT EDUCATION

For several years we have received requests from individuals and from groups to inaugurate an adult education program. As I have stated in previous reports, our energies thus far have been focused largely upon making the necessary adjustments to an enlarged institution; but the time has now arrived when we shall give more attention to the possibilities of this added service. Of course, we have always done something in this field. Our graduate courses in Education are deliberately scheduled for late afternoons and Saturdays and are attended in large numbers by teachers and administrators in the Worcester schools and the schools of neighboring towns. Each year there are other individuals who register as special students for those courses which meet their particular interests. During 1951-52 an interesting experiment was tried by the Department of Chemistry in offering a course at the graduate level in Principles of Instrumental Analysis. This was conducted in the late afternoon and evening by Professor Richard B. Martin and clearly met the needs of a number of chemists in the vicinity. We are now engaged in a more systematic study of our resources and the needs of the community in the hope of establishing a well-organized program in adult education next year.

STUDENT HEALTH SERVICE

One of the most important developments of the past year was the establishment of a dispensary and infirmary to serve as a student health center. Although we have always provided adequate medical services for our students, we were handicapped by the lack of a college-operated infirmary. Dr. Eugene L. Richmond '24, one of the alumni members of the Board of Trustees, made a thorough study of our needs and, with the help of the administrative officers of the University, presented recommendations to the Board. We were fortunate in acquiring two houses on Downing Street, directly across from the Library, and have turned the first floor of one of these houses into a dispensary, two infirmary wards, one for men and one for women, and living quarters for a resident nurse. As a part of this program, all undergraduate students are charged a health fee as a part of their regular college expenses, and the new program was inaugurated in the spring of 1952. Dr. Constance Kaliris, who has been the Medical Director for Women since the establishment of the Women's College, resigned at the close of last year. In reorganizing our medical services, we have not attempted to have one Medical Director for Men and another exclusively for women. Dr. Michael Fox '05 continues as one of our medical directors and Dr. Milton H. Yudell is now associated with him. Mrs. Winifred Nagle has been appointed resident nurse.

THE TRUSTEES

At the last annual meeting of the Board of Trustees, Mr. George H. Mirick '07 resigned as president, although he will continue as member of the Board. Mr. Miric has been a valued Board membe since 1920 and has occupied th offices of secretary, treasurer, vic president, and president. A speci meeting was held later for the pu pose of electing officers, and th new president is Robert H. Loom '11, Chairman of the Board Loomis, Sayles & Co., Inc. in Bosto The other officers elected we Judge Carl W. Wahlstrom '20, vi

CLARK UNIVERSITY

Sixty-third Annual Commencement

Worcester Memorial Auditorium

SUNDAY, JUNE 7, 1953

WORCESTER, MASSACHUSETTS

Order of Exercises

Processional

March on Themes by Händel and Elgar

Invocation — Reverend Roger Hazelton
Abbot Professor of Christian Theology,
Andover Newton Theological School

Welcome by the President

Commencement Address — C. Hartley Grattan
Author and Lecturer
Katonah, New York

Conferring of Degrees

Benediction — Reverend Roger Hazelton

Recessional

Trumpet Tune — *Purcell*

The audience will kindly remain
standing during the recessional

Candidate for the Degree of Bachelor of Education

*Mildred Louise Kingsbury

Candidates for the Degree of Bachelor of Business Administration

Gunnar Bjork Anderson, Jr.
Walter Leslie Arbo
Stuart Read Bagni
Pierre Leo R. Benoit
William Elliott Bernstein
*John Michael Budwick, Jr.
Ronald Chester Buzzell
William James Coulter, Jr.
*Frank William D'Amico
Russell Alvin Dickison
William James Ehrmanntraut
Martin Feinberg
Henry Paul Finnegan
*David Carleton Gaskell
*Wesley Reginald Giles
Albert Leonard Johnson
Masami Lawrence Kimura
*Noel John Maghak
James John Mangano
*John Charles Manoog, Jr.
Ernest Robert Menelly, Jr.
*Heraklis George Petrakogeorges
Henry Washington Stone, Jr.
Richard Thomas Strozina
Albert Wilfred Surprenant, Jr.
*Ronald William Thibideau
*Robert Edward Vigneault
*Albert Joseph Walsh
Harry James Warms

Candidates for the Degree of Bachelor of Business Administration with Honor

Hugh Christy Bacon *with Honors in Business Administration*
Norman Johnston *with Honors in Business Administration*
Melvin Morton Rosenblatt *with Honor in General Course*

Candidate for the Degree of Bachelor of Business Administration with Highest Honor

William Frederic Hausrath *with Highest Honor in General Course and with Honors in Business Administration*

**As of June 8, 1952*

Candidates for the Degree of Bachelor of Arts

Robert Stanton Allard
Marilyn Alpart
Marcia Rita Beaudin
Robert Rock Belliveau
Hilda Berkowitz
*Frederick William Blais
*Americo Salvator Boffoli
Walter Edward Boryczewski
Harry Caldwell Briggs
Blossom Sheila Brooks
Jean Anne Bruso
Richard Baker Bult
Richard Fuller Bumer
Yolande Marie Chartrand
Aldona Janina Chekas
*Francis Paul Cipriani
Carolyn Janet Clark
Milton James Cooke
Alan George Coulter
*Earl Leonard Croman
Howard Monroe Cunningham, II
Maryjane Elizabeth Curran
Nancy Lillian Curtis
George Andrew Downes, Jr.
Oscar LeRoy Dube
Jocelyn Ann Dugas
*Alyne May Eaves
Nancy Marie Erickson
Gerald David Falk
John Warren Fetherolf
Joyce Kay Fischer
*William Matthew Fitzgerald
Ann Marie Flynn
Robert Carl Frodigh
Stanley John Gadomski
Richard Gordon Gilbert
Edward Thomas Goodlight, Jr.
Loren Nelson Gould
*Robert Edmond Graf
Howard Herman Greene
Marjorie Annette Gullberg
Charles Edward Hackett, Jr.
Phyllis Evelyn Haidukiewicz
Beverly Haslam
*George Najeb Hayeck
Ernest Herbert Hayhow
Raymond Joseph Hebert
Louise Hightaian
Grace Louise Hook
Barbara Louise Hopkins
Valeda Carolyn Hudson
Mary Kathryn Jones
Donald Lapan Kelley
*Walter Amandus Kistler
*Stanley Melvin Klainer
Edward Joseph Krajewski
Jane Louise Larson
John William Lauler, Jr.
Lucille Therese Leger
*Robert David Lindstrom
John Lockhart
Jameson David MacFarland
Grace Anne Manning
Norman Albert Martel
Richard Raymond Martin
William Snyder Maynard
Joanne McDonald
Anna Theresa McDonough
Dorothy Bernardine McGrath
John Carberry Meade
Barbara Ann Milton
*Howard Ralph Morey
Philip Francis Mulvey, Jr.
Arthur Chandler Murdock
George Nicholas Nasse
John Peter Nazarow
Polly Katherine Nelson
Richard Andrew Nelson
Chloe Adele Nester
Daniel Mordecai Newman
Gerald Earl Norman
Marilyn Bernardine Nylin
Elaine June Parsley
Wayne Everett Patterson
Ernest Gerard Phoenix
John Constantine Polymeros
Patricia Ann Putnam
Rose Marie Radzik
Marella Deighton Rimbach
Esther Frances Sher
Paul John Sorvo
Paul William Sternlof
Basil Stavros Strates
William Thomas Sullivan
Richard Frederic Sussman
Genevieve Agnes Szerlag
Jeanne Tait
Constance Thayer
Daniel Walter Thomas
Albert Joseph Tomolonis
Theodore Albert Tromovitch
Elliott Dean Turnbull
*Irma Waterman
Charles Ellison Webster
Amorette Grace Weed
Dorothy Ann Wheeler
Richard Andrew White
Albert Vito Witt
Russell Paul Zetterlund
Jurgita Constance Zimavicius

**As of June 8, 1952*

Candidates for the Degree of Bachelor of Arts with Honor

Herbert Floyd Crovitz *with Honors in Psychology*

Robert Morrison Doris, Jr. *with Honor in General Course and with Honors in History and International Relations*

Steve Charles Dune *with Honor in General Course and with Honors in Economics and Sociology*

Jerome Fox *with Honors in Economics and Sociology*

Lois Marian Miller *with Honors in Economics and Sociology*

William John Novick *with Honors in English*

David Erickson Sawyer *with Honors in Physics*

Marilyn Joan Steeves *with Honor in General Course*

Judith Ann Ungar *with Honor in General Course and with Honors in Government*

Robert Kasimir Yakutis *with Honors in Fine Arts*

Helen Troy Young *with Honor in General Course*

Candidates for the Degree of Bachelor of Arts with High Honor

Yvonne Marcelle Clavien *with High Honor in General Course and with Honors in Romance Languages*

*Hope Barbara Cowen *with High Honor in General Course and with Honors in Psychology*

*Norma Josephine Goldman *with High Honor in General Course*

Pauline Marilyn Gustafson *with High Honor in General Course and with Honors in English*

Yolanda Agnes Hug *with High Honor in General Course*

Richard Charles Hutchinson *with High Honor in General Course*

Dorothy Sitinick Kavoogian *with High Honor in General Course*

Ann Teresa Larava *with High Honor in General Course and with Honors in Classics*

Diane Eleanor Wheeler *with High Honor in General Course*

Candidate for the Degree of Bachelor of Arts with Highest Honor

Elizabeth Asher Ginsburg *with Highest Honor in General Course and with Honors in Psychology*

**As of June 8, 1952*

Candidates for the Degree of Master of Arts in Education

Frederick William Blais
Kathleen Ciprian Coutu
Virginia May Hegvig
Reino Ilmari Kallio
Robert Edward King
Richard Alan LaPierre
Henry Anthony Ozimek
Donald Everett Smith
Harriet Elaine Sternberg
Kenneth Leslie Willard

Candidates for the Degree of Master of Arts

Chemistry
Francis Joseph Craven, Jr.

Economics and Sociology
Theodore Oboo Asare, Jr.
Jean Louise Cronin
Gilbert Francis Mueller
Paul Weiner
Charles Williams-Baffoe

Geography
Frank Howard Bellinger
Dorothy Mildred Day
Lawrence Michel Delliquadri
Ian Shenstone Fraser
Gerald Harry Hones
Curtis Vanderbilt Martin
John Edward O'Shea
Paul Anthony Prince
Sawat Senanarong
Chester Edward Smolski
Ray Wentworth Tobey
Adrian Weston Vander Pyl
Charles Broadwell Varney

History and International Relations
William Frederick Beemer
Jānis Voldemārs Celinskis
William Hammond Farrell, Jr.
Mary Catherine Foster
Paul Stephen Greenlaw
Irving Edward Howard
Charlotte Maxine Lenentine
Charles Gradie Levo, Jr.
James Emrys Pugh
Francis Joseph Robitaille
David Zalman Tavel

Psychology
Duilio Giannitrapani
Stanley Edward Kaden

Candidates for the Degree of Doctor of Philosophy

Chemistry

Alexis Adrian Babineau
Kurt Heinz Stern

Economics and Sociology

Edward Emile LeClair, Jr.

Geography

Eleanor Elizabeth Hanlon
Albert Havens Jackman
Oliver Herman Laine
John Lewis Taylor

History and International Relations

Donald Ellis Johnson
Samuel Maurice Osgood
Stephen Thomas Riley

Psychology

Robert William Baker
Jan Herbert Bruell
Kenneth Ashton Chandler
Robert Bryce Gorrell
Bernard Kaplan
Stanley Harold Lofchie
Bernard Mirin
Robert Harvey Pollack

Conferring of Honorary Degrees

CHARLES HENRY SAWYER *Doctor of Humane Letters*
Presented by George Leslie Stout

ROBERT WILLIAM GLENROIE VAIL *Doctor of Humane Letters*
Presented by Loring Holmes Dodd

LEONARD CARMICHAEL *Doctor of Letters*
Presented by Vernon Jones

CLINTON HARTLEY GRATTAN *Doctor of Letters*
Presented by Homer Payson Little

GRAYSON LOUIS KIRK *Doctor of Laws*
Presented by Sherman Strong Hayden

THE EVENING COLLEGE
OF CLARK UNIVERSITY
950 Main Street • Worcester 10, Mass.
TELEPHONE 6-1525

★ SUMMER TERM ★

An 8-Weeks Program of Study

June 14th through August 5th*

Classes Tuesday and Thursday evenings

7:00 - 9:40 P. M.

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from
The Evening College
of Clark University
Worcester 10, Mass.

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GENERAL INFORMATION

Five 3 semester-hour credit courses have been selected to permit adults to further their education and to complete some of the requirements for the degree of Bachelor of Science in General Studies or the degree of Bachelor of Science in Business Administration, which are offered by the Evening College.

Registration: Monday and Tuesday, June 14th and 15th, 5:00 to 8:00 P. M. Jonas G. Clark Hall, or in advance by mail. Requests for registration forms should be sent to: The Evening College, Clark University.

Tuition and Fees: All courses are 3 semester-hour courses for which the tuition is $50.00* *This must be paid at the time of registration* or by special arrangement with the Director.

A matriculation fee of $5.00 is required of all students registering in the University for the first time.

Minimum registration necessary for courses to be given — 15.

*Note: The course in Library techniques begins May 20th and has a tuition rate of $24.00.

BUSINESS ADMINISTRATION

B.A.—E. 10 ELEMENTS OF PRODUCTION

Joseph A. Nordstrom, *Assistant Professor of Business Administration*

A survey of the production function in business, giving special emphasis to an exposition and theoretical evaluation of current practices in the fields of plant location, building and equipment selection, product and process development, maintenance, and methods of manufacture.

This course is required for the B.S. in B.A. degree. It will not be offered in the school year 1954-55.

Tuesday and Thursday, 7:00-9:40. 3 semester hours credit. Tuition $50.

B.A.—E. 128a ELEMENTARY COST ACCOUNTING

George E. Hargest, *Associate Professor of Economics and Business Administration*

A study of the basic principles of cost accounting and their application to the job order cost system. Especial consideration is given to the accounting for material, labor and manufacturing expenses and to the preparation of financial statements.

This course may be counted towards partial fulfillment of the major requirement in the B.S. in B.A. degree. It will be followed in the spring semester 1955 by B.A. E128b — Advanced Cost Accounting.

Tuesday and Thursday, 7:00-9:40. 3 semester hours credit. Tuition $50.

PSYCHOLOGY

-E. 200 SOCIAL PSYCHOLOGY: A study of individual and group behavior in society.

Bernard Kaplan, *Lecturer in Psychology*

A course dealing with the ways in which individuals are moulded to members of different groups. The course details how the infant and child acquire the attitudes, interests, beliefs, values and motives of such groups as the family, church, nation, etc. It highlights the reasons the individual's maladjustments to social groups. It also deals with the psychological processes underlying such important social phenomena as group conflict, the emergence of leadership, the transmission of rumor, the effectiveness of propaganda, panic and hysteria of groups, group ence, war.

Text: T. Newcomb. Social Psychology. Dryden: New York.

Prerequisites: An introductory course in psychology or permission of the instructor.

This course may be counted towards fulfilling the requirement in Group in either the B.S. in Gen. Studies, or B.S. in B.A. degree program.

Tuesday and Thursday, 7:00-9:40. 3 semester hours credit. Tuition $50.

FINE ARTS

F.A.—E. 111 THE THEORY AND PRACTICE OF PAINTING

Mary Murphy, *Instructor of Drawing and Painting — School of Worcester Art Museum*

Problems in representation of natural appearance are presented through the practice of traditional modes of painting and space representation; studies of the function of tone in the organization of pictorial design through the analysis of traditional and contemporary composition and the application of contemporary theories of space representation; instruction is adjusted to the individual needs of the student. Choice of media: Oil, watercolor or gouache.

This course may be counted towards fulfilling the requirement in Groups C, D in either the B.S. in General Studies or B.S. in B.A. degree program.

Enrollment limited to 22 students.

Tuesday and Thursday, 7:00-9:40. 3 semester hours credit. Tuition $50.

CHEMISTRY

Chem. E-224 THE PHYSICAL CHEMISTRY OF PROTEINS

Gersons Kegeles, *Associate Professor of Chemistry*

The course presents: Methods of isolation and criteria of purity; quantitative analysis of protein mixtures; hydrolysis and denaturation; osmotic pressure, sedimentation, diffusion, viscosity, dielectric dispersion, light scattering and flow birefringence methods for studying size and shape of protein molecules; electro-chemistry and electrophoresis; chromatography of proteins and protein hydrolysates; interaction of proteins with water; physical methods applied to antigen-antibody reactions; refractometric optical systems for studying resolution of protein mixtures.

Text: F. Haurowitz, Chemistry and Biology of Proteins, Academic Press, New York, 1950.

Prerequisite: Bachelor's degree or by special permission of the instructor.

Tuesday and Thursday, 7:00-9:40. Tuition $50. Laboratory Fee $3.

LIBRARY

Li.—E. 1 TRAINING PROGRAM IN LIBRARY TECHNIQUES

Miss Ruth Hyatt, *Librarian, Fitchburg Public Library*

Miss Evelyn Weachter, *Reference Librarian, Fitchburg Public Library and assistant.*

A series of six courses is being offered in basic library techniques for Librarians who wish to improve themselves and the service their library can render to the community, and for those who contemplate employment in small and medium-sized public libraries. The course would also be beneficial to trustees of small town libraries in understanding the problems of their institutions. Upon satisfactory completion of the six courses Clark University will award a Certificate of Achievement.

Although these courses will not carry academic credit it is felt that they will provide good in-service training, a basis for "vocational upgrading" in a library system, or opportunity to prepare for the position of Library Technician.

The first three courses will be offered on twelve consecutive Thursday evenings from May 20th to August 5th. Courses 4, 5, and 6 will be offered during the following summer, 1955.

The proposed curriculum will include the courses listed below:

SUMMER 1954:

1. Cataloging and Classification (May 20th, 27th, June 3rd, 10th).

   Basic and simple techniques that may be applied to the problems of the small and medium-sized library.

2. Sources and Methods of Information (June 17th, 24th, July 1st, 8th). Miss Evelyn Weachter

   Tools for answering questions; how to get and give information within the limits of the library's collection, and improve this service at minimum cost.

3. The Library in the Community (July 15th, 22nd, 29th, August 5th). Miss Ruth Hyatt

   Administrative problems: the librarian's role within and without the library, public relations, and adult education, including possibilities for development of these areas with limited staff and funds.

SUMMER 1955

4. Book Selection

   How to maintain a working collection of books to include acquisition of new titles and replacement of discarded materials.

5. Work with Children and Young People

   Book selection and methods of stimulating interest in reading among children from the pre-school age through high school.

6. Mechanics of Library Processes

   Discussion and demonstration of Circulation Desk routines; workroom procedures involving new book preparation, mending, and binding; other library routines including filing and taking inventory.

Registration before class, May 20th, or in advance by mail. Requests for registration forms should be sent to: The Evening College, Clark University, Worcester 10, Massachusetts.

Thursday, 7:00 to 8:50 *beginning May 20th* through August 5th.

Tuition for all three courses — $24.00, (a minimum of any two courses may be attended for $16.00). A matriculation fee of $5.00 is required of all students registering in the University for the first time.

CLARK UNIVERSITY BULLETIN
WORCESTER MASSACHUSETTS

Summer School Program

Clark University
June 22 to August 6
1953

For Teachers in Secondary and Elementary Schools, for Undergraduates, and for Graduate Students

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The BULLETIN is published four times a year, January, February, March, and December.

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CLARK UNIVERSITY BULLETIN

No. 208 January 1953

A SPECIALIZED SIX-AND-ONE-HALF-WEEK SUMMER SCHOOL

BUILT AROUND

Biology
Economics
Education
English
Geography
Government
History
Sociology

Together with
Combined Field Studies in Geography and Biology

ALL SUBJECTS TO BE INTEGRATED AROUND A CORE THEME:

Problems of Citizenship Today

ALSO INDEPENDENT COURSES IN

French and German

THE PROGRAM IS PLANNED FOR TEACHERS IN SECONDARY AND ELEMENTARY SCHOOLS, FOR UNDERGRADUATES, AND FOR GRADUATE STUDENTS

REGISTRATION: June 22, 9:00-12:00 A.M.

FINAL EXAMINATIONS: August 4, 5, 6

ADMINISTRATIVE OFFICERS OF THE UNIVERSITY

HOWARD B. JEFFERSON, President

HOMER P. LITTLE, Dean of the College and
Director of the Summer School

SUMMER SCHOOL STAFF

(All are members of the Clark University Faculty unless otherwise indicated)

Biology

RUDOLF F. NUNNEMACHER, PH.D., Associate Professor of Biology

Economics

ARTHUR F. LUCAS, PH.D., Professor of Economics; Director of the Division of Business Administration

Education

VERNON JONES, PH.D., Professor of Educational Psychology; Chairman of the Department of Education

DAVID LANE, PH.D., Assistant Professor of Education; Director of Placement Bureau

DAYTON D. SHEPHERD, M.A., Teaching Principal of Elementary School, Falls Village, Connecticut; Formerly Instructor in Elementary Education at Southwest Missouri State College and at New Haven (Connecticut) State Teachers College

English

HOWARD K. MOORE, PH.D., Assistant Professor of English

French

Donald E. MacQueen, M.A., Instructor in Romance Languages

J. Richard Reid, Ph.D., Associate Professor of Romance Languages

Geography

Guy H. Burnham, M.A., Instructor in Geography; Cartographer, Graduate School of Geography

Samuel Van Valkenburg, Ph.D., Professor of Geography; Director of the Graduate School of Geography

Henry J. Warman, Ph.D., Associate Professor of Geography

German

Alfred Beerbaum, Ph.D., Instructor in German

Government

Morris H. Cohen, Ph.D., Assistant Professor of Government

History

Robert F. Campbell, Ph.D., Associate Professor of American History

Sociology

Frederick W. Killian, LL.B., Associate Professor of Sociology

The Plan

In the summer of 1953 Clark University is again offering a specialized Summer School program. The program is built primarily around the areas of Education, Geography, Biology, Economics, English, History, and Sociology. For the first time the University is offering courses in Elementary Education. Independent of the plan there will be offerings in French and German.

Many of the courses have been selected and prepared with special consideration for the functional needs of teachers and graduate students. One of these needs, for example, and one around which many of the courses are organized, is that of the development of youth in citizenship. An allied need is the guidance and leadership of youth by teachers so that young people may live understandingly amid current problems in the national and international scene. Through regularly organized courses and panel discussions, the Staff will work intensively and cooperatively with teachers and prospective teachers in attacking these problems of youth.

Advanced undergraduates will also find courses of interest, and the opportunities in foreign languages should prove helpful at all levels.

INTEGRATION OF EDUCATION AND SUBJECT-MATTER FIELDS

Leading professors in the University in the areas of English and the Social Sciences are cooperating with the Department of Education in an effort to make the full resources of the University readily available to teachers in extending their backgrounds in these subject-matter areas and in planning their work in light of the changing conditions affecting youth.

The underlying purpose will be to meet the needs of teachers in their actual classroom situations. This will be achieved by providing opportunities for teachers to extend their knowledge in one or more subject-matter fields, by encouraging detailed course and curriculum planning in Education courses, and by the informal interchange of ideas in student-faculty contacts on trips, in conferences, and in weekly panel discussions.

INTEGRATION OF GEOGRAPHY AND BIOLOGY IN FIELD STUDY

The intense interest of members of the Departments of Geography and Biology in field work and the success last summer of an experimental course in Field Ecology has led to an offering for the current summer of a joint field course by the two departments. Much of the study will be done in Worcester and vicinity with occasional trips farther afield. It is believed that the course has been so planned as to combine experiences valuable to teachers in these fields, to undergraduates, and to graduate students.

The plan is described in more detail under courses offered by the Department of Geography.

SMALL, INTIMATE CLASSES AND WORK GROUPS

It is the intention of the administration and faculty of the Summer School to keep the number of students in class and work groups sufficiently small to permit a broad interchange of ideas and experiences, a friendly and intimate relationship among the students, and frequent opportunities for student-faculty contact and consultation.

DISCUSSIONS, OBSERVATIONS, READINGS

The presence of such a large percentage of subject-matter specialists in our faculty team should not only add much to the richness of the course offerings but also serve to make readily available to teachers, through informal discussion and conference, background materials and reading references which would otherwise require more arduous study than the practicing teacher normally has time for on the job. The weekly panel discussions by the faculty and selected teachers from the field will highlight the resources function of the faculty and student body as a whole.

It is the intention of the Summer School to emphasize critical thinking, discussion, and practical planning on the part of teachers. Opportunities will be provided for teachers to have work conferences and discussions with each other and with members of the Staff, with a view to translating their learnings and experience into concrete plans for improved instruction in their schools.

FOREIGN LANGUAGE

Through the cooperation of members of the Departments of French and German, courses are offered in those fields with the understanding that if less than seven elect a given course it may be withdrawn if the instructor so desires. Students interested in these courses are advised to register promptly in order that the probability of a satisfactory enrollment may be determined early.

THE LOCATION OF THE SUMMER SCHOOL IN RELATION TO TRIPS AND OFF-CAMPUS STUDY

Clark University is situated at almost the exact center of Massachusetts. Weekend visits to the following places may be readily made: Plymouth, Concord, Lexington, Boston and the seashore, the reconstructed Sturbridge Village, and other points of geographic, historic, and literary significance. Many of these points of interest are shown on the pictorial map. Those wishing to supplement trips associated with the Summer School may readily arrange profitable weekend outings of their own planning.

Worcester and environs provide excellent demonstration and field-work facilities in science and in the areas of economic, recreational, cultural, religious, and civic life.

Courses

Courses whose number begins with "2" are open to teachers and graduate students and to advanced undergraduates. Teachers desiring to take such courses should, however, consult with the Chairman of the Department of Education. Courses whose number begins with "1" are open to all undergraduates except Freshmen. They may not normally be elected for credit by graduate students. If the number "1" is preceded by an "F," the course is open to Freshmen.

Courses meet for a seventy-minute period, Monday through Friday, unless otherwise indicated.

BIOLOGY

F Biol. SS 17. *Animal Ecology.* An introductory study of the distribution of animals, their interrelationships and adaptations to such a wide variety of environments as the seashore, sand dunes, woodlands, and ponds. Longer field trips to Mt. Monadnock, the virgin forest at Bradford, N. H., the North Shore, and the Barnstable sand dunes on Cape Cod will be taken on Saturdays. Previous courses in Biology are helpful but not required. Travel and laboratory fee: $10.00.

Daily, except Saturday, at 8:00; short field trips or laboratory, Tuesday, 2:00-5:00.

Mr. Nunnemacher

Biol. SS 299a and Geog. SS 299a. *Field Methods and Studies.* See Geog. SS 299a.

Daily, except Saturday, at 10:30.

Messrs. Nunnemacher and Warman

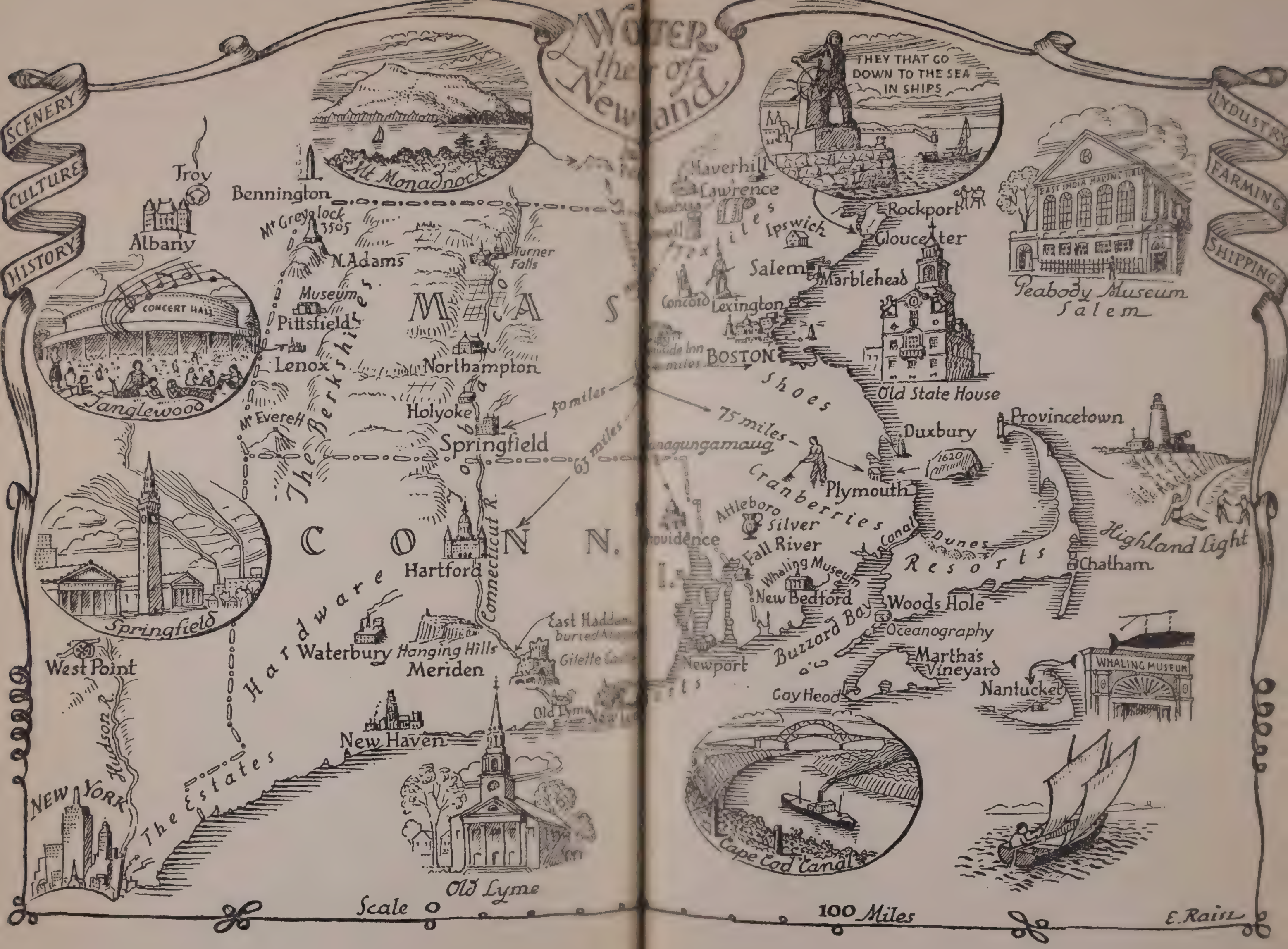
ECONOMICS

F Econ. SS 101. *The American Economic System.* This is an introductory course available to students with no previous training in Economics. It presents an analysis of the American economic system, stressing features and problems of interest to every citizen. The purpose throughout is to give the students the basic information necessary to an understanding of how the American system of free enterprise operates. Typical of the subjects discussed are: the nature of private capitalism; the development of American economic institutions; how the price mechanism functions; the monetary and credit systems; the basis of foreign trade; national income and its distribution; how the government is financed.

Daily, except Saturday, at 9:15. MR. LUCAS

Econ. SS 201. *Basic Economic Issues Confronting the American People.* This course provides an opportunity for the review of the leading economic issues of the day. It is designed to meet the needs of those who wish an advanced course in Economics, as well as those who desire to become better acquainted with current economic problems. The issues discussed will be selected on the basis of the students' interests and previous training. The following are illustrative: the economics of defense; foreign trade; foreign aid and the economics of the Marshall Plan; taxation and the financing of government; monopoly and the future of free competition; government policy toward organized labor; the maintenance of full employment. An elementary course in Economics is a prerequisite.

Daily, except Saturday, at 10:30. MR. LUCAS


Wo ers
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New and
SCENERY
CULTURE
HISTORY
INDUSTRY
FARMING
SHIPPING
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THEY THAT GO DOWN TO THE SEA IN SHIPS
Troy
Bennington
Albany
Mt Greylock 3505
N. Adams
Turner Falls
Museum
Pittsfield
The Berkshires
M A S S
CONCERT HALL
Tanglewood
Lenox
Northampton
Holyoke
Mt Everett
Springfield
50 miles
65 miles
Wayside Inn
miles
75 miles
Haverhill
Lawrence
Textiles
Ipswich
Rockport
Gloucester
Salem
Marblehead
Concord
Lexington
BOSTON
Shoes
Old State House
EAST INDIA MARINE HALL
Peabody Museum Salem
Provincetown
Duxbury
1620
Plymouth
Quinsigamaug
Cranberries
C O N N.
Connecticut R.
Hartford
Hardware
Waterbury
Hanging Hills
Meriden
East Haddam buried
Gilette Castle
Old Lyme
New London
Springfield
West Point
Hudson R.
NEW YORK
The Estates
New Haven
Old Lyme
Providence
R. I.
Attleboro
Silver
Fall River
Whaling Museum
New Bedford
Canal
Dunes
Resorts
Buzzard Bay
Woods Hole
Oceanography
Chatham
Highland Light
Martha's Vineyard
Nantucket
WHALING MUSEUM
Newport
Gay Head
Cape Cod Canal
Scale 0
100 Miles
E. Raisz

Educ. SS 210b. *Education for Citizenship: Methods and Materials.* A practical study of the contribution of the total school and community milieu in the development of character and citizenship of children and youth, including the potential contributions of the regular school subjects and of special activities as revealed by an analysis of many citizenship programs now in operation; the place of knowledge and feeling in character and citizenship education; the place of guidance and other special services; the activity hypothesis as applied to citizenship development; and the place of the home and the church in over-all planning. The use of certain community resources will be demonstrated by trips, panel discussions, and the like. Provision will be made for teachers to submit individual problems for study and discussion and to develop plans and materials for use in their schools.

Daily, except Saturday, at 9:15. MR. JONES

Educ. SS 212. *Guidance in Secondary Schools.* A survey of principles and methods of guidance, with emphasis on counseling techniques and on problems of vocational, educational, and social adjustment. The course is designed to help teachers become more effective participants in the guidance program as well as to provide an introduction to the field for those who plan to specialize in guidance work.

Daily, except Saturday, at 10:30. MR. LANE

Educ. SS 214a. *Educational Psychology: Student Evaluation.* The purposes of this course will be to provide practice in the use of some of the more important evaluative devices in the study of the strengths and weaknesses of children and youth in school achievement and social development. Special attention will be given to measurement of aptitude, interest, social adjustment, and knowledge with a view to providing psychological bases for instruction and guidance. Provision will be made for teachers to work on their own problems in this field, such as the improvement of their testing methods and their reports to students and parents.

Daily, except Saturday, at 11:45. MR. JONES

Educ. SS 260. *Methods and Materials in Elementary Education.* Modern practices in the elementary school with special reference to grades four through eight. Students will be expected to work on the planning of their own teaching units for the next school year. Special attention will be given to the over-all planning of the children's learning experiences in quantitative thinking and in the social studies.

Daily, except Saturday, at 10:30. MR. SHEPHERD

Educ. SS 261. *The Curriculum Development in Elementary Education.* A study of the curriculum in relation to the physical and psychological development of the child in the middle grades, with special reference to character and citizenship development. In addition to a consideration of over-all curricular planning, special attention will be given to the language arts and to reading as a study skill basic to development in social studies and elementary science. Special problems on curriculum or methods from members of the class will be welcomed.

Daily, except Saturday, at 8:00. MR. SHEPHERD

Educ. SS 262. *Mental Hygiene in Teaching and Guidance: Community Resources in Mental Hygiene.* A study of the psychology of adjustment with particular reference to the teacher's rôle in understanding and guiding behavior. The relationship between learning and social and emotional adjustment will be explored. The emphasis will be on the behavior of normal children and on the prevention, rather than the treatment, of maladjustment. Field trips will be made to agencies in the Worcester area which contribute to the mental hygiene efforts of the community, so that the school's rôle may be seen in its total community setting.

Daily, except Saturday, at 9:15. Mr. Lane

ENGLISH

F Eng. SS 12. *Public Speaking.* This course is designed to train the student to address formal and informal groups, forcefully and effectively. Emphasis will be placed on overcoming self-consciousness and nervous mannerisms; on the logical organization and vivid delivery of the speech; and on the posture and appearance of the speaker. Recordings will be made of each student's speech, and these will become the basis of individual conferences. There will be opportunities to hear and to criticize the speeches of public speakers. This course carries credit toward the degree of Bachelor of Arts and also meets the requirement in Public Speaking (B.A. 17a) toward the degree of Bachelor of Business Administration.

Daily, except Saturday, at 9:15. Mr. Moore

Eng. SS 117. *Romantic Poetry.* A study of the romantic movement as revealed in the poetry of Wordsworth, Coleridge, Byron, Shelley, and Keats. Discussions of the nature of poetry and the poet.

Daily, except Saturday, at 8:00. Mr. Moore

FRENCH

Note: Both courses in French are double courses, requiring attendance at two 70-minute periods; students electing either of these courses should plan to devote their full time to it.

Each of these courses will be offered for a minimum class of seven students. In the case of French 12, the course may be offered for a smaller number.

F Fr. SS 12. *Intermediate French.* Review of grammar, exercises in composition and pronunciation, intensive and extensive reading in a variety of modern texts. *Prerequisite:* French 11 or the equivalent, to be determined by a Placement Test.

Daily, except Saturday, at 10:30. MR. MACQUEEN

F Fr. SS 14. *Readings in French Literature.* The aim of French 14 is twofold: the attainment of facile reading ability and the appreciation of at least ten works selected from various periods and chosen for their literary excellence and universal appeal. *Prerequisite:* French 12 or the equivalent, to be determined by a Placement Test.

Daily, except Saturday, at 10:30. MR. REID

GEOGRAPHY

Geog. SS 299a and Biol. SS 299a. *Field Methods and Studies.* An introductory course in field methods of particular value to students and teachers in the fields of social studies, geography, and natural science. Three weeks of intensive work in Worcester and south of Worcester, where studies of weather, land forms, land use, and plant and animal distribution will be made. The Geography, Geology, and Biology departments will cooperate in lectures and field techniques. A $10.00 fee is charged to help defray the cost of transportation and laboratory materials. Field work starts at 10:30; late afternoons and evenings are devoted to discussions, map work, and report writing. This course will yield 3 semester hours' credit.

Daily, except Saturday, at 10:30.

MESSRS. NUNNEMACHER AND WARMAN

Geog. SS 285b. Geography of Asia. A regional geographical description and evaluation of the Near and Far East countries. A study of life and culture in the Middle East. Particular emphasis on Korean problems.

Daily, except Saturday, at 8:00. Mr. Van Valkenburg

Geog. SS 26a. *Economic Geography.* An analysis of the occupations of Economic Geography: hunting, fishing, forest industries, grazing, farming, mining, manufacturing, transportation, and trade. An integral part of each occupation study will be the methods and techniques of presentation at the various grade levels in public and private schools. Designed especially for teachers.

Daily, except Saturday, at 9:15. Mr. Warman

Geog. SS 201b. *Political Geography: Problem Areas.* A study of major political and human problems of the world as related both to the physical elements of geography such as location, size, shape, climate, natural vegetation, relief, and water bodies, and to the economic elements such as resources, industries, investments, trade, and transportation. Attention is also given to the ethnographic structure of nations, language, religion, and government. The principles arrived at in the course are applied to the international relations of selected regions.

Daily, except Saturday, at 10:30.

Mr. Van Valkenburg

Geog. SS 191. *Cartography.* A discussion of various graphic methods and their application to geographic data. Since emphasis will be placed upon the mastery of cartographic tools and instruments, this course should prove particularly helpful to those planning to enter government service or to do illustrative work.

Daily, except Saturday, at 1:30. Mr. Burnham

GERMAN

NOTE: Both courses in German are double courses, requiring attendance at two 70-minute periods; students electing either of these courses should plan to devote their full time to it.

F Ger. SS 11. *Introductory German.* The regular first-year course in German. Study of pronunciation, vocabulary, elements of grammar, composition, and reading of suitable German prose.

Daily, except Saturday, at 9:15. MR. BEERBAUM

F Ger. SS 12. *Intermediate German.* The regular second-year course in German. Review of first-year grammar, translation from and into German, exercises in written and oral composition, reading of modern German prose.

Daily, except Saturday, at 9:15. MR. EDWARDS

GOVERNMENT

Govt. SS 251. *American Political Parties.* A study of the organization and activities of the American political party system and of the relationship of pressure groups and the electorate to American politics. Emphasis will be placed upon current problems with special attention to the presidential campaigns and the national conventions of 1952.

Daily, except Saturday, at 8:00. MR. COHEN

HISTORY

Hist. SS 230b. *U. S. Social and Intellectual History Since 1865.* Beginning with a study of the critical social problems of the Reconstruction period, this course will then examine the chief influences that have shaped American society since that time, the outstanding scientific, philosophical, and religious ideas, and the main currents of economic and political thought. Throughout the course an attempt will be made to integrate and interpret the many aspects of American civilization.

Daily, except Saturday, at 9:15. MR. CAMPBELL

SOCIOLOGY

F Soc. SS 12b. *Introduction to Cultural Anthropology.* The evolution and development of man and his culture: basic concepts; the races of man and their distribution; process of adaptation and adjustment through culture; primitive, historic, and modern culture complexes compared; divergence transmission, and function of culture; origin and growth of civilizations; contemporary preliterate peoples; relationship of anthropology as a background for teaching the social studies in the schools.

Daily, except Saturday, at 8:00. MR. KILLIAN

Soc. SS 21a. *The Family and Society.* The emergence of marriage and family life from kinship and tribal organizations; the function and organization of the family in ancient civilizations; the family in our Western cultural heritage; the family and the rise of urban centers as influenced by mobility, secularism, status and rôle, individualism; the family and community organization; the welfare agencies and family reintegration; the family in relation to the school and to education; the function of the family in child-rearing and training.

Daily, except Saturday, at 10:30. MR. KILLIAN

DEGREES AND CREDITS

All courses offered are accepted at Clark for credit toward the degrees of Bachelor of Arts and Bachelor of Business Administration. Certain courses in the Summer School also count toward the degrees of Master of Arts, Master of Arts in Education, and Doctor of Philosophy, when approved in advance by a student's major department.

Each subject successfully pursued for six weeks yields one-half course (three semester hours) credit, except that courses in a foreign language, all of which meet two periods a day, yield one course (six semester hours) credit. One double course or two half-courses constitute a full program.

TUITION AND LIVING COSTS

The tuition for the normal program of two half-courses or one double course is $100.00; for one course the charge is $50.00. A student carrying a full program may audit a third course without additional cost. In addition to tuition, there is a matriculation fee of $5.00 for students entering the University for the first time, and a laboratory fee of $10.00 for the course in Ecology and for the Biology-Geography field course. Tuition and fees are payable at the Bursar's office immediately following registration.

Dormitory facilities for both men and women are available. Those for women are, however, somewhat limited and reservations should be made promptly. Rooms in private homes near the University are also available. Rooms in the dormitories cost $5.00 per week. A deposit of $10.00 is required in advance to hold a room.

Breakfast and lunch may be secured at the Student Union. Dinner is available at nearby restaurants.

RESEARCH ON THESES

Graduate students formally registered in the Summer School may, with the approval of their major department, enroll in thesis courses under the direction of regular members of the Staff other than those listed in the present BULLETIN.

VETERANS

Veterans attending the 1953 Summer School should either present their supplemental Certificate of Eligibility at the Bursar's Office, Veterans' Window, not later than Friday of the first full week of the term or pay their tuition. All tuition paid will be refunded shortly after the Certificate of Eligibility is at hand. The Director of the Summer School should be consulted when unusual or unexpected situations arise.

To the Director of the Clark University Summer School:

I wish to enroll as a student in the Summer School for 1953.

Name -- Date ------------------------

Present Address --

Permanent Address --

Occupation -- Academic Degrees ----------------

Are you a candidate for an Academic Degree? --

If so where? --

If a Veteran, will you be enrolled under the G. I. Bill? --------------------------

Do you wish a room in a dormitory? ------------ If so, please enclose deposit.

Courses you tentatively expect to elect: --

FOR FURTHER INFORMATION ADDRESS

Dean Homer P. Little, Director of the Summer School

Worcester 10, Massachusetts

Sig · Clark · University : Anno · Mdccclxxxvii
FIAT LUX

Program of Studies

in

THE EVENING COLLEGE

of

Clark University

Winter-Spring Semester
FEBRUARY 1-MAY 29, 1954

39 Courses to help you:

obtain a degree in business administration

advance yourself in your career

obtain a degree in general studies

broaden your knowledge generally

enrich your mind culturally

improve yourself socially

THE EVENING COLLEGE
OF CLARK UNIVERSITY
950 Main Street • Worcester 10, Mass.
TELEPHONE 6-1525

Prepare Yourself for Tomorrow: PROFESSIONALLY — SOCIALLY — CULTURALLY.

COMBINE a CAREER by day with COLLEGE in the evening —

39 Courses to help you — offered by The Evening College of Clark University

LIBERAL ARTS

English Composition and Literature	Wed.	(3)
Public Speaking and Human Relations	Tues.	(3)
Modern Literature	Thurs.	(2)
Greek Literature in Translation	Mon.	(2)
Armenian Language	Sat.	(2)
Intermediate Armenian	Sat.	(2)
History and Culture of Armenia and the Near East in the Period of Antiquity	Fri.	(3)
French Civilization: The Ancien Régime	Fri.	(2)
Conversational German	Mon.	(3)
Germanic Civilization	Tues.	(2)
Russian Civilization, Past and Present—An Historical Introduction to Soviet Russia	Mon.	(2)
Beginning Spanish	Tues.	(2)
Commercial Spanish Correspondence	Mon.	(3)
Great Composers and Their Works	Tues.	(2)
Introduction to Human Physiology	Wed.	(3)
Differential Equations	Thurs.	(3)
Functions of a Complex Variable	Tues.	(3)
General Psychology	Tues.	(3)
Introduction to Child Psychology	Thurs.	(2)
Abnormal Psychology	Mon.	(3)
Dynamics of Interpersonal Relationships with a Group	Thurs.	(2)
Community Organization and Resources	Tues.	(2)
Introduction to Social Philosophy	Mon.	(2)
Introduction to Philosophy of Education	Mon.	(2)
Politics in America	Wed.	(3)
The Balkans and Near East in World Politics	Mon.	(2)
How We Produce Our Food	Mon.	(2)
Principles and Techniques of Athletic Coaching	Mon.	(2)
Principles of Formal and Recreational Leadership	Thurs.	(2)
Workshop in Public Relations	Thurs.	(2)

BUSINESS ADMINISTRATION

Principles of Accounting	Wed.	(3)
Sales Management	Thurs.	(2)
Introduction to Personnel Management	Wed.	(3)
Techniques of Managerial Control	Mon.	(3)
Human Relations and Policy Making in Business and Industry	Mon.	(3)
Fundamentals of the American Economy	Thurs.	(3)

NURSING EDUCATION

Tuberculosis Nursing	Thurs.	(2)
Child Growth and Development	Mon.	(3)
Ward Teaching	Wed.	(2)

For complete descriptions of these courses write for Clark University Bulletin EC-2.

Tuition costs are $34.00 for a two-hour course (2), and $50.00 for a three-hour course (3).

Registration: Monday and Tuesday, January 25th and 26th, 3:00 to 9:00 p. m. Persons wishing to register by mail in advance may do so by writing for a registration form.

Classes begin Monday, February 1.

Please address all inquiries and requests to The Director.

THE EVENING COLLEGE
OF CLARK UNIVERSITY

950 Main Street • Worcester 10, Mass.

GENERAL INFORMATION

Clark University announces its listing of courses to be offered in the winter-spring semester by the Evening College. All adults interested in furthering their education are welcome.

There are no formal admission requirements but a person should be a high school graduate or have the maturity and sustained interest which will permit him to derive the full benefit of his Evening College studies.

Courses, which are listed below, are available for both a business administration and a liberal arts program of studies. Some adults will undoubtedly wish to obtain a college degree. Others will want to learn more about subjects which can help them advance in their daytime jobs. Still others may just wish to broaden their knowledge generally or enrich their culture. All groups should find subjects to their liking in the variety of courses offered by the Evening College. Courses are approved for veterans eligible under the G.I. Bill. Auditors are required to pay full tuition charges and fees, but are not subject to examinations and consequently receive no credit for courses taken.

Degree Programs

The Evening College awards a Bachelor of Science in General Studies and a Bachelor of Science in Business Administration degree upon successful completion of 120 semester hours of credit. About one-third of the credits are earned in the field of major interest, another third in the liberal arts courses not a part of the major, and the remaining third are chosen as free electives. The average length of time required for completion of the program is eight years. Credits transferred from other institutions may substantially reduce the credits to be earned at Clark.

Further information or additional course announcements may be obtained from:

Dr. Rudolph F. Nunnemacher
Clark University, Worcester, Mass. Tel. 6-1525

Calendar

January 25, 26, Monday, Tuesday—Registration—3:00 to 9:00 P.M.
February 1, Monday—Beginning of second semester
February 6, Saturday—Last day for late registration
February 22, Monday—Washington's Birthday—a holiday
April 4 through 10—Spring vacation
May 24, Monday—Beginning of Examination Week

Registration: Jonas Clark Hall

Monday and Tuesday, January 25 and 26, 3:00 to 9:00 P.M.
Wednesday, January 27 through Friday, February 5, 1:00 to 7:00 P.M.
Saturday, January 30, February 6, 9:00 to 1:00 P.M.

After January 30 there will be a late registration fee of $3.00. No registrations accepted after February 6.

Changes in class registration will be permitted by re-registration after the first class meeting only.

Minimum registration necessary for courses to be given—15.

Withdrawals

Requests for withdrawal must be made *in writing* and will become effective upon receipt in the Evening College office. *Discontinuance of attendance at classes or notice to the instructor does not constitute withdrawal.* Partial refunds of tuition will be made only upon request, and receipt of written notice of withdrawal received prior to the end of the fifth week of the semester and upon approval by the Director.

Tuition and Fees

Tuition for a two-semester-hour course is $34.00; for a three-semester-hour course $50.00. *Tuition must be paid at the time of registration* or by special arrangement with the Director.

A matriculation fee of $5.00 is required of all students registering in the University for the first time.

Late registration fee (February 1 through February 6)—$3.00.

Language, Literature, and Cultural Studies

ENGLISH

E.11 ENGLISH COMPOSITION AND LITERATURE (Part II)

John L. Bradley, *Assistant Professor of English*

The purpose of English 11 (Part II) is to help the student to develop sound critical principles in evaluating fiction, drama, and poetry. Written work, stressing accuracy and clarity of expression, will be required. Open to students who have taken Part I. New students adequately qualified will be accepted with the consent of the instructor.

Wednesday, 7:00–9:40. 3 semester hours credit. Tuition $50.

E.11 ENGLISH COMPOSITION AND LITERATURE (Part I) (Will be repeated if sufficient demand)

Edward H. Hastings, *Lecturer in English*

The purpose of English 11 is to develop clarity and accuracy in reading and writing. The first part reviews the principles of rhetoric and offers the student practice in analyzing difficult expository passages.

Wednesday, 7:00–9:40. 3 semester hours credit. Tuition $50.

E.12 PUBLIC SPEAKING AND HUMAN RELATIONS (Part II)

Robert S. Illingworth, *Professor of Speech and Drama*

Parliamentary Procedure, How to Conduct a Meeting; Toastmaster, Discussion Meetings, such speeches as Good Will, Promotional, Inspirational, Introduction, and Welcome. Case studies in Human Relations.
Open to new students in February; limited enrollment.

Tuesday, 7:00–9:40. 3 semester hours credit. Tuition $50.

E.123 MODERN LITERATURE

Edward H. Hastings, *Lecturer*

An introduction to some of the chief trends in modern literature through the study of such representative novelists, poets, and dramatists as Joyce, Hemingway, Kafka, Eliot, Auden, Shaw and O'Neill.

Thursday, 7:00–8:50. 2 semester hours credit. Tuition $34.

GREEK

* E.117 GREEK LITERATURE IN TRANSLATION

Claude W. Barlow, *Associate Professor of Classics*

The class will read in English translation and discuss a few of the major works of epic poetry, history, drama, and philosophy by classical authors. No attempt will be made to survey all of Greek literature; rather, selections will be made from the works preferred by those who elect the course.

Monday, 7:00–8:50. 2 semester hours credit. Tuition $34.

* - Courses not given -

ARMENIAN

E.1 ARMENIAN LANGUAGE

Professor Armen Jerejian, *Visiting Lecturer from Columbia University*

A study of modern Armenian for beginners; one hour of language analysis and one of written and oral practice.

First class meeting, 9:30 A.M., Saturday, February 6.

2 semester hours credit. Tuition $34.

E.3 INTERMEDIATE ARMENIAN

Professor Armen Jerejian, *Visiting Lecturer from Columbia University*

A review of the essentials of grammar, reading of moderately difficult texts, and oral practice. Prerequisite: Armenian 1–2 or equivalent.

First class meeting, 11:00 A.M., Saturday, February 6.

2 semester hours credit. Tuition $34.

E.115 HISTORY AND CULTURE OF ARMENIA AND THE NEAR EAST IN THE PERIOD OF ANTIQUITY (Part I)

Professor Armen Jerejian, *Visiting Lecturer from Columbia University*

This course is devoted to the critical study of the History and Culture of Armenia and the Near East as revealed by geological, archeological data; Sumero-Akkadian, Old Egyptian, Hurrian, Hittite, Assyrian, Urartean, Achaemenidian inscriptions, as well as Greek, Latin, and classical Armenian texts in relation to the comparative study of the ancient History, Culture and Religion of Asia Minor and the Near East. The account of Near-Eastern culture begins with pre-historic times, and continues with cultural developments on the Armeno-Iranian plateau and in the valleys of the Tigris, Euphrates and Nile, from the fourth millenium B.C. to the fifth century A.D.*

*(Part II carries the study of Armenian culture and history through the Middle Ages; Part III brings the study to contemporary times.)

Friday, 7:00–9:40. 3 semester hours credit. Tuition $50.

FRENCH

E.113 FRENCH CIVILIZATION: THE ANCIEN RÉGIME

Theodore Nicol, *Associate Professor, Romance Languages*

A selective survey of the history, art, music and literature of France from the Renaissance to the eve of the French Revolution. Conducted in English.

Friday, 7:00–8:50. 2 semester hours credit. Tuition $34.

GERMAN

E.111 CONVERSATIONAL GERMAN

Alfred Beerbaum, *Instructor in German*

This course presupposes some preliminary work in or knowledge of German, although the essentials of pronunciation and the basic rules of sentence structure will be briefly reviewed. The course will develop gradually from common phrases in daily conversation to a more fluent expression of ideas in the foreign tongue. Topics will

(*continued*)

deal with the present-day geography and the political and cultural life of the German speaking countries (Germany, Austria, Switzerland), as well as problems of a social or political nature in America and its relations abroad. The student will learn to present his viewpoint in conversation with a German. A text book and a newspaper printed in Germany will be used. The course is recommended for all those who wish to supplement their study of German with practice in the *spoken* language and those who plan to travel or study on the continent.

Monday, 7:00–9:40. 3 semester hours credit. Tuition $50.

E.141 GERMANIC CIVILIZATION

James S. Edwards, *Assistant Professor of German*

An introduction to European civilization through German monuments. Because of her central European position, which has made her a melting pot, it is convenient to observe the changing pattern in the arts, literature, philosophy, economy and social institutions, as they appear on the scene. Special attention will be paid, however, to the Reformation, the Age of Enlightenment, German Idealism and a study will be made of the present-day position of Germany through an understanding of the past.

Tuesday, 7:00–8:50. 2 semester hours credit. Tuition $34.

RUSSIAN

E.17 RUSSIAN CIVILIZATION, PAST AND PRESENT—AN HISTORICAL INTRODUCTION TO SOVIET RUSSIA

Marc Raeff, *Assistant Professor of Russian History*

Using a topical approach, the course will attempt to give a picture of the historical background for present-day Soviet Russia. An effort will be made to determine and analyze those factors in the past which may still be significant in our understanding of, or dealing with, Russia. The main topics of discussion will be: the role of religious, cultural, and historical traditions; the development of absolutism, centralization, and nationalism; the social and ideological roots of radicalism before 1917; Russia's ideological borrowings from the West and her attitudes towards Europe and America. To the extent that it is feasible, these questions will be studied through their manifestations in Russian art, music, literature, and social life.

Monday, 7:00–8:50. 2 semester hours credit. Tuition $34.

SPANISH

E.100 BEGINNING SPANISH (Part II)

Miss Helen G. Agbay, *Lecturer*

This course offers an opportunity to obtain a basic foundation for a good listening, speaking and reading knowledge of Spanish and will be adapted to the needs of the class so that it may be helpful to business people and travelers as well as to those wishing to pursue a study of Spanish. Emphasis in the second semester will be on reading and conversation.

Open to new students having some knowledge of Spanish. Permission of the instructor required.

Tuesday, 7:00–8:50. 2 semester hours credit. Tuition $34.

E.111 COMMERCIAL SPANISH CORRESPONDENCE

Raymond E. Barbera, *Instructor in Spanish*

Deals primarily with the composition and translation of business letters in Spanish and the translation of English correspondence into idiomatic Spanish; of practical use to those who plan to enter the import and export field. Prerequisite: One or more years of Spanish.

Monday, 7:00–9:40. 3 semester hours credit. Tuition $50.

MUSIC

E.16 GREAT COMPOSERS AND THEIR WORKS

Clifford F. Green, *Lecturer in Music*

A study of the lives and works of the Master Composers from Johann Sebastian Bach to the present day, including stylistic tendencies of composers as exemplified by their important works. A course designed primarily to promote effective listening.

Tuesday, 7:00–8:50. 2 semester hours credit. Tuition $34.

SCIENCE AND MATHEMATICS

BIOLOGY

E.140 INTRODUCTION TO HUMAN PHYSIOLOGY

John H. Blair, *Assistant Professor of Physiology*

Lectures and discussions of problems in human physiology including muscles, circulation, digestion, nerve function, reproduction and the endocrine glands. An important part of the course will be laboratory demonstrations with opportunity for the students to become familiar with basic techniques for studying physiological activities.

Wednesday, 7:00–9:40. 3 semester hours credit. Tuition $50.

MATHEMATICS

E.13 DIFFERENTIAL EQUATIONS

John S. Stubbe, *Associate Professor of Mathematics*

The course in differential equations deals with the solution of the principal first and second order differential equations and the nth order linear equations with constant coefficients, with special attention to geometric and numerical methods. Careful consideration is given to boundary value problems and the existence and uniqueness of solutions.

In addition to various geometric problems the methods of the course are applied to problems of mechanics, steady state heat flow, chemical reaction, chemical solutions, electric circuits and others.

Thursday, 7:00–9:40. 3 semester hours credit. Tuition $50.

E.216 FUNCTIONS OF A COMPLEX VARIABLE

Charles T. Bumer, *Professor of Mathematics*

A course in the theory of functions of a Complex Variable is essential to advanced work in Physics and Mathematics. This course treats of complex numbers, series,

(*continued*)

Announcement

The Evening College of Clark University will offer an eight-weeks program of study from June 14 through August 5 with lectures to be held Tuesday and Thursday evenings, 7:00–9:40 p.m.

Each course will carry a three semester-hour credit which may be used for transfer purposes or applied toward the Bachelor of Science degree in General Studies or in Business Administration in the Clark Evening College.

EVENING COLLEGE SUMMER COURSES

B.A.–E.10 Elements of Production
PROF. JOSEPH A. NORDSTROM

B.A.–E.128a Elementary Cost Accounting
PROF. GEORGE E. HARGEST

Psy.–E.200 Social Psychology MR. BERNARD KAPLAN
Lecturer in Psychology

F.A.–E.111 Theory and Practice of Painting
MISS MARY MURPHY
Instructor, Worcester Art Museum School

Chem.–E.224 Physical Chemistry of Proteins
PROF. GERSON KEGELES
(Prerequisite: Bachelor's degree or special permission)

REGISTRATION: June 14 and 15 5:00–8:00 p.m.

TUITION: $50.00 for each course

MATRICULATION FEE: $5.00 for student registering at Clark for first time

For complete course descriptions write

THE DIRECTOR–CLARK EVENING COLLEGE
Worcester 10, Massachusetts

analytical functions, contour integration, conjugate functions, entire functions, Cauchy's integral theorem, residues. Considerable emphasis is placed on the usefulness of function theory in applications. Prerequisite: a good course in Calculus.

Tuesday, 7:00–9:40. 3 semester hours credit. Tuition $50.

SOCIAL STUDIES

PSYCHOLOGY

E.111 GENERAL PSYCHOLOGY

Seymour Wapner, *Associate Professor of Psychology*

An introduction to the principles of human behavior. A one semester course repeated in the spring semester and introductory to other courses in Psychology.

Tuesday, 7:00–9:40. 3 semester hours credit. Tuition $50.

E.170 INTRODUCTION TO CHILD PSYCHOLOGY

Theodore Leventhal, *Instructor in Psychology*

The child's mental and emotional life, including the development of his personality and of some typical adjustment difficulties. No prerequisites required.

Thursday, 7:30–9:20. 2 semester hours credit. Tuition $34.

E.103 ABNORMAL PSYCHOLOGY

Richard S. Lazarus, *Associate Professor of Psychology*

This course is aimed at providing an understanding of the nature of mental illness, including the neuroses, psychoses, and other forms of maladjustments. It will deal with such problems as the history of medical psychology, the causes of mental illness including hereditary, social, and personal factors, psychosomatics, problems of diagnosis, and the various forms of treatment procedures. Some foundations in psychology, preferably an introductory course, is strongly advised as background for the course. The scientific approaches to the field will be stressed. Thus the course will be of value primarily in the student's progress toward the general understanding of the problem of mental disorder, rather than as a means of throwing light on the personal problems of the individual students.

Monday, 7:00–9:40. 3 semester hours credit. Tuition $50.

E.15 DYNAMICS OF INTERPERSONAL RELATIONSHIPS WITHIN A GROUP

Joseph Weinreb, M.D., *Professor Affiliate in Psychology*
Director, *Child Guidance Clinic*

The purpose of the course is to demonstrate the conscious and unconscious processes that are operating in the function and formation of various groups. The feelings of the members of the group are at play at all times and these may help or hinder the function of the group. In this course members of the group are expected to express their feelings as they are aroused in the group meetings and through the open interactions of the members of the group the dynamics of the group are demonstrated.

While the exploration of unconscious feelings of individuals are inevitably brought out, it is not planned that this course should serve a therapeutic purpose and enrollment for such purpose is to be discouraged.

(*continued*)

This course is intended primarily for those whose work requires the handling of groups of people whether in teaching, ministry, recreation or other professional capacity.

Because of a restricted enrollment students intending to take this course must fill out a special registration form obtainable at the Evening School office.

Thursday P.M., 2 hour non-credit. Time to be arranged. Tuition $34.

SOCIOLOGY

E.24 COMMUNITY ORGANIZATION AND RESOURCES

Walter A. Olson, *Executive Secretary, Family Counselling Service*

Man, with his family, lives in a social climate which he calls his community. Time is rarely available for him to discover how his present community differs from that of the past and some of the reasons why change has taken place. He has little opportunity to evaluate his unique community responsibilities, as well as what he has a right to expect from his community.

This course will be devoted primarily to studying the process of community organization, the community in action; constantly changing, never static. It will include an examination of the various health and social agencies, public and private; why and how they came into being, their current programs, their support and methods of operation, as well as their interrelatedness, forming a total pattern of services designed to meet total human needs.

Consideration will be given to the field of social work as a profession. Its educational requirements and its specializations will be reviewed.

The local community will be used extensively to illustrate how a community is organized.

Tuesday, 7:00–8:50. 2 semester hours credit. Tuition $34.

PHILOSOPHY

✱ E.13 INTRODUCTION TO SOCIAL PHILOSOPHY*

Robert N. Beck, *Assistant Professor of Philosophy*

An introductory examination of the goals, purposes, and ideals of social process, and of the relation of that process to the individual good.

Monday, 7:00–8:50. 2 semester hours credit. Tuition $34.

EDUCATION

E.290 INTRODUCTION TO PHILOSOPHY OF EDUCATION*

Robert N. Beck, *Assistant Professor of Philosophy*

An examination of aims, processes and materials of education with special reference to the influence of philosophical ideas on educational emphases.

Open only to graduates or students with advance standing.

Monday, 7:00–8:50. 2 semester hours credit. Tuition $34.

**Either* Introduction to Social Philosophy *or* Introduction to Philosophy of Education will be offered depending on student interest.

EDUCATION

E.25 PRINCIPLES AND TECHNIQUES OF ATHLETIC COACHING

Rocheleau Granger, *Director*, *Physical Education*

The main emphasis in this course is upon those aspects of athletic coaching in High Schools or recreational programs which the beginning coach must know. Major stress is devoted to the fundamentals of basketball and baseball and how to teach them, and the offensive and defensive tactics of the players in different positions. Some study is also given to the prevention and care of injuries in athletics. Open to students with the consent of the instructor.

Monday, 7:00–8:50. 2 semester hours credit. Tuition $34.

E.26 PRINCIPLES OF FORMAL AND RECREATIONAL LEADERSHIP

Miss M. Hazel Hughes, *Associate Dean for Women*

A discussion and lecture course presenting the philosophy, development and evaluation of leadership techniques for the training of volunteer and professional recreational leaders in their work with girls and young women. Open to students with the consent of the instructor.

Thursday, 7:00–8:50. 2 semester hours credit. Tuition $34.

HISTORY

E.136 POLITICS IN AMERICA

Robert Campbell, *Associate Professor of American History*

This course will deal with the historical background of (1) the American political system as it operates today and (2) selected political issues of contemporary interest. Use of current newspaper and periodical literature will be encouraged. Class meetings will consist of lectures, discussion, and brief student reports.

Wednesday, 7:00–9:40. 3 semester hours credit. Tuition $50.

E.115 THE BALKANS AND NEAR EAST IN WORLD POLITICS

Dwight E. Lee, *Professor of Modern European History*

Great Power politics in the area of the former Ottoman Empire, with attention to the efforts of the Jugoslavs, Greeks, Romanians, Bulgars, Albanians, Armenians, Arabs, and Jews to achieve independence and security in the 19th and 20th centuries.

Monday, 7:00–8:50. 2 semester hours credit. Tuition $34.

GEOGRAPHY

E.161 HOW WE PRODUCE OUR FOOD

Edward C. Higbee, *Associate Professor of Geography*

A series of kodachrome illustrated lectures describing and analyzing the different types of farming and the different ways of rural living in the United States and Latin America. Special attention is given to such regions as the Amazon, the Highlands of Guatemala, and the Irrigated Western United States. Photos taken by the instructor.

Monday, 7:00–8:50. 2 semester hours credit. Tuition $34.

MISCELLANEOUS COURSES

SOCIAL WORK COURSES

A program of graduate credit and non-credit courses to be given in conjunction with the Boston University School of Social Work is under consideration. Arrangements for such courses as Case Work, Medical Information for Social Workers, Group Work, and Public Welfare are being made. Please write to the Director for further information.

LIBRARY SCIENCE

Ruth Hyatt, *Librarian, Fitchburg Public Library*

A basic course designed to help the librarians of small town, school, or specialized libraries and assistants in larger libraries become familiar with modern methods of cataloging, reference work, library organization and administration. *The course will begin in late spring. Inquiries should be addressed to the Director.*

## * WORKSHOP IN PUBLIC RELATIONS

Robert P. Anderson, *Assistant to the President*

There are no prerequisites for this course, although it is planned more as a practical help to persons already engaged in public relations than as an introductory course for beginners. Case histories will be used in studying the tools and techniques of the various media of communication. Attention will be given to group attitudes and behavior as they affect an organization's relations with its various publics.

Thursday, 7:00–8:50. Non-credit. Tuition $34.

BUSINESS ADMINISTRATION

B.A.—E.117 PRINCIPLES OF ACCOUNTING—Part II

George E. Hargest, *Associate Professor of Economics and Business Administration*

The organization and use of financial records, with emphasis on their interpretation as well as on the techniques of procedure. Qualified students may be admitted with the permission of the instructor.

Wednesday, 7:00–9:40. 3 semester hours credit. Tuition $50.

B.A.—E.109 SALES MANAGEMENT

Eugene J. Kelley, *Assistant Professor of Economics and Acting Director, Business Administration Division*

This course is designed to give the student experience in analyzing sales management problems, arriving at practical solutions, and defending these solutions. Topics discussed include: The sales management field, sales planning, recruitment and selection of salesmen, training, supervision, salesmen's assignments, evaluation, compensation, and control.

Thursday, 7:00–8:50. 2 semester hours credit. Tuition $34.

B.A.—E.182 TECHNIQUES OF MANAGERIAL CONTROL

Joseph A. Nordstrom, *Assistant Professor of Economics*

This course emphasizes those techniques by which information is communicated and stored to achieve the most efficient control of functions in the modern business enterprise. Special emphasis is given to office management techniques.

Monday, 7:00–9:40. 3 semester hours credit. Tuition $50.

B.A.—E.112 INTRODUCTION TO PERSONNEL MANAGEMENT (Part II)

Mr. Harold Stanzler, *Personnel Manager, Collyer Insulated Wire Company, Pawtucket, Rhode Island, and Lecturer in Business Administration*

A survey of policies, practices and theory underlying the management of manpower in modern business institutions. The case study approach is used to some degree. Representative topics to be covered are transfer, downgrading and layoff, wage administration, and employee services. Emphasis will be given to Federal and State Labor legislation. It will not be necessary to have completed the first term's work in order to enter the second term.

Wednesday, 7:00–9:40. 3 semester hours credit. Tuition $50.

B.A.—E.131 (Soc.—E.131) } HUMAN RELATIONS AND POLICY MAKING IN BUSINESS AND INDUSTRY

Fred W. Killian, *Associate Professor of Sociology*

A study of the general types of policy problems in business and industry involving both long and short run solutions. The problems will be selected from experience through actual cases. No dogmatic solutions will be insisted upon. These cases will be analyzed in class by the students and the instructor, as well as by certain guest participants from business and industry. Each case will be related to the available ideas and materials which sociology, psychology, government and law have had to offer and certain attempted solutions will be suggested and analyzed. Each class meeting will begin with a case. The human relations factor in each case will be related to the necessity of organization and procedure in each area of business and industry. There will be full opportunity for student participation. The approach will be coordinated with research and work done during some years at Massachusetts Institute of Technology, and the Harvard Graduate School of Business and other places.

(Sociology E.131 is identical with Business Administration E.131.)

Monday, 7:00–9:40. 3 semester hours credit. Tuition $50.

Econ.—E.111 FUNDAMENTALS OF THE AMERICAN ECONOMY—(Part II)

Sheldon Schaffer, *Assistant Professor of Economics*

A study of the American economic system. The student needs no previous formal work in economics. He will examine and discuss basic facts and explanations and apply them to leading economic problems of the day. Typical subjects are: the nature of American capitalism; the price system; money, credit and banking; depression and inflation; economic growth; income distribution; labor; public finance; international trade. Some attention to socialism, communism and fascism. This course continues through the year but may be entered in February by new students.

Thursday, 7:00–9:40. 3 semester hours credit. Tuition $50.

NURSING EDUCATION

NURSING EDUCATION PROGRAM

In cooperation with Boston University.

Courses—primarily for graduate nurses—given in the late afternoon as part of a cooperative program leading to the degree of Bachelor of Science in Nursing granted by Boston University.

Because of the high minimum registration requirements all students *must register January 25 or 26 and make tuition checks payable to Boston University.* The Boston University courses will not be given if the registration quotas are not met by January 26.

NU-199X TUBERCULOSIS NURSING

Elizabeth Ulrich, *Assistant Chief, Nursing Education*
Veterans' Administration Hospital, Rutland

An epidemiological approach to tuberculosis nursing. Considers the broad implications for prevention and rehabilitation. Discussion of nursing care is focused on the patient and the family. The nurse's role in all phases of care is considered—social, emotional, and therapeutic. Local, national, and international programs for tuberculosis control are included.

Thursday, 4:30–6:30. 2 semester hours credit. Tuition $35.
Minimum registration—30.

NU-209 CHILD GROWTH AND DEVELOPMENT

Elizabeth Hall, *Associate Professor of Nursing*

Considers the physical, mental, social, spiritual and emotional growth patterns of children from infancy through adolescence to maturity. Special consideration is given to personality development as influenced by family problems of care. Demonstration, discussion and lecture.

Monday, 3:30–6:30. 3 semester hours credit. Tuition $52.50.
Minimum registration—22.

NU-400 WARD TEACHING

Instructor to be announced

Designed both for staff nurse and head nurse. This course considers the principles and methods of teaching as they relate to teaching patients and students in the clinical field. Primary emphasis is placed on the objectives and organizations of ward teaching programs.

Wednesday, 4:30–6:30. 2 semester hours credit. Tuition $35.
Minimum registration—30.

L. P. Colby
Office Copy

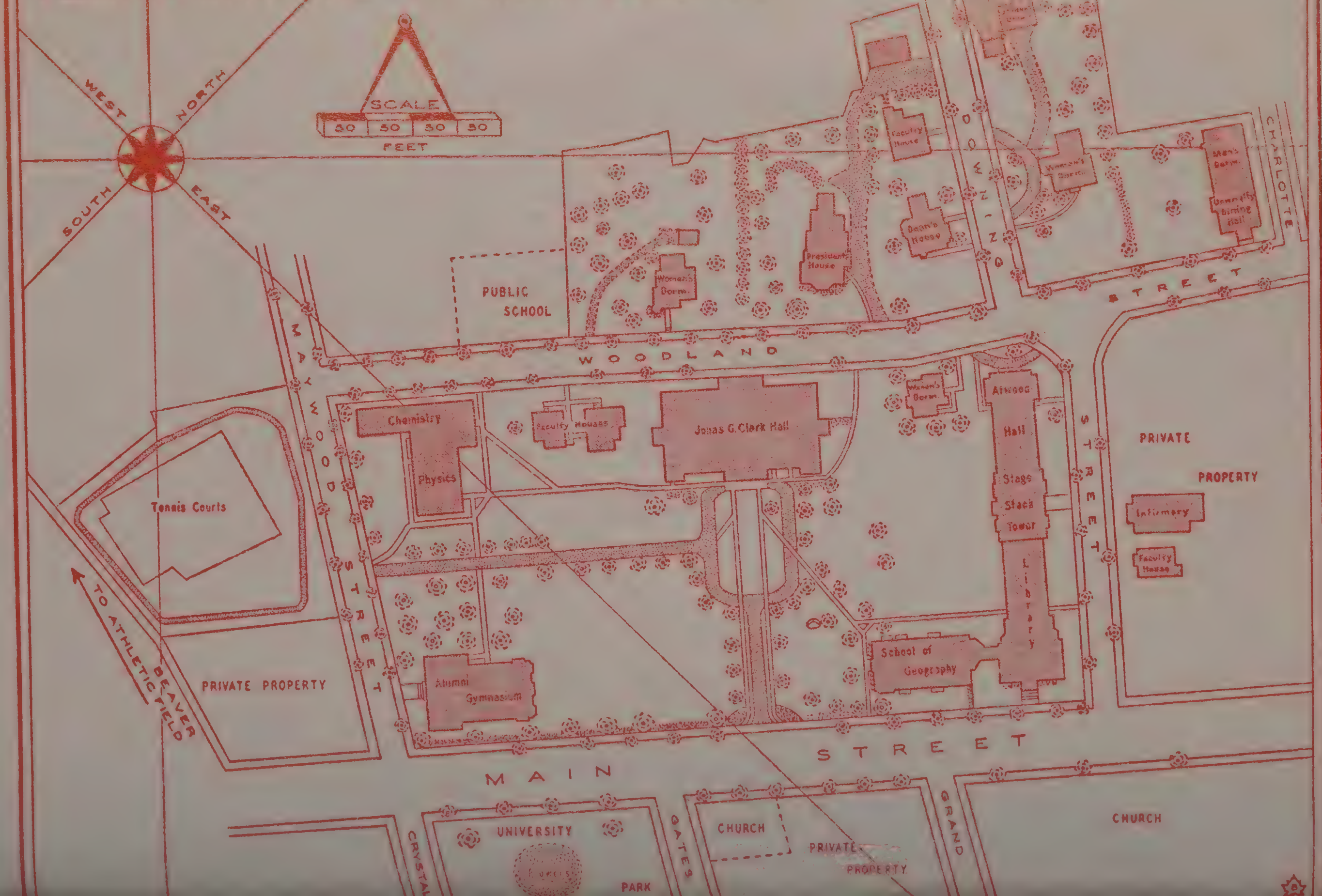
Clark University Bulletin

Number 213 February, 1954

General Catalogue

WORCESTER, MASSACHUSETTS

CLARK UNIVERSITY MAIN CAMPUS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Jonas G. Clark Hall
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Clark University Bulletin

Number 213 February, 1954

General Catalogue

A record for the current academic year 1953-1954. Such announcements for the year 1954-1955 as can be made at the time of publication are included. Tuition and other fees are given for the year 1954-1955.

The Bulletin is published in January, February, March and December. Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917. Authorized January 24, 1921.

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Calendar

The academic year begins on the Monday before the fourth Thursday in September and ends on Saturday before the thirty-eighth Monday. It includes two approximately equal semesters and two vacation periods: two weeks including Christmas Day and New Year's, and one week near the first of April. The first semester ends on the Saturday before the twentieth Monday and the second semester begins on the twentieth Monday of the academic year.

1953-54

First Semester

September 21, Monday. Registration day. Beginning of academic year 1953-54.
October 1, Thursday. Last day for payment of term bills.
October 12, Monday. Columbus Day. A holiday.
November 2, Monday. Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June 1954.
November 11, Wednesday. Armistice Day. Not a holiday.
November 14, Saturday. Mid-semester reports.
November 25, Wednesday. Beginning of Thanksgiving recess at close of classes.
November 30, Monday. End of Thanksgiving recess at 8 a.m.
December 19, Saturday. Beginning of Christmas recess at 1 p.m.

1954

January 4, Monday. End of Christmas recess at 8 a.m.
January 12, Tuesday. Registration for second semester. Classes omitted.
January 18, Monday. Beginning of semester examination period.
January 30, Saturday. End of first semester.

Second Semester

February 1, Monday. Beginning of second semester.
February 6, Saturday. Last day for receiving applications for admission to candidacy for the degrees of Master of Arts and Master of Arts in Education in June 1954.
February 11, Thursday. Last day for payment of term bills.
February 22, Monday. Washington's Birthday. A holiday.
March 20, Saturday. Mid-semester reports.
April 3, Saturday. Beginning of spring recess at 1 p.m.
April 12, Monday. End of spring recess at 8 a.m.
April 19, Monday. Patriot's Day. Not a holiday.
May 10, Monday. Ph.D. dissertations due at Registrar's office at 9 a.m.
May 13, Thursday. Last day for senior comprehensive examinations.
May 17, Monday. A.M. and A.M. in Ed. theses due at Registrar's office at 9 a.m.
May 19, Wednesday. Classes omitted.
May 20, Thursday. Beginning of semester examination period.
May 30, Sunday. Memorial Day.
May 31, Monday. A holiday.
June 6, Sunday. Commencement Day.

Summer School, 1954

June 28, Monday. Beginning of summer school. Registration day.
July 1, Thursday. Last day for payment of summer school tuition.
July 4, Sunday. Independence Day.
July 5, Monday. A holiday.
July 10, Saturday. Classes held.
August 9, Monday. Beginning of summer school examinations.
August 11, Wednesday. End of summer school.

1954-55

First Semester

September 20, Monday. Registration day. Beginning of academic year 1954-55.
September 30, Thursday. Last day for payment of term bills.
October 12, Tuesday. Columbus Day. A holiday.
November 1, Monday. Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June 1955.
November 11, Thursday. Armistice Day. Not a holiday.
November 13, Saturday. Mid-semester reports.
November 24, Wednesday. Beginning of Thanksgiving recess at close of classes.
November 29, Saturday. End of Thanksgiving recess at 8 a.m.
December 18, Saturday. Beginning of Christmas recess at close of classes.

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January 4, Tuesday. End of Christmas recess at 8 a.m.
January 11, Tuesday. Registration for second semester. Classes omitted.
January 17, Monday. Beginning of semester examination period.
January 29, Saturday. End of first semester.

Second Semester

January 31, Monday. Beginning of second semester.
February 5, Saturday. Last day for receiving applications for admission to candidacy for the degrees of Master of Arts and Master of Arts in Education in June 1955.
February 10, Thursday. Last day for payment of term bills.
February 22, Tuesday. Washington's Birthday. A holiday.
March 19, Saturday. Mid-semester reports.
April 2, Saturday. Beginning of spring recess at close of classes.
April 11, Monday. End of spring recess at 8 a.m.
April 19, Tuesday. Patriot's Day. Not a holiday.
May 9, Monday. Ph.D. dissertations due at Registrar's office, 9 a.m.
May 12, Thursday. Last day for senior comprehensive examinations.
May 16, Monday. A.M. and A.M. in Ed. theses due at Registrar's office at 9 a.m.
May 18, Wednesday. Classes omitted.
May 19, Thursday. Beginning of semester examination period.
May 30, Monday. Memorial Day. A holiday.
June 5, Sunday. Commencement Day.

September 19, Monday. Registration day. Beginning of academic year 1955-56.

The University

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Historical Note

CLARK University was established as a result of the long-time interest in education and the generosity of Jonas Gilman Clark, a native of Hubbardston in Worcester county and a resident of Worcester from shortly after the Civil War to the time of his death. In founding the University which bears his name Mr. Clark was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester.

The charter of the University was granted by the General Court of the Commonwealth of Massachusetts in 1887. During the ensuing two years buildings were erected and a faculty was assembled. The first students were enrolled in October, 1889.

At that time there existed in the United States, and especially in New England, reasonably ample provision for undergraduate liberal arts education. On the other hand, there was only one institution, The Johns Hopkins University, which placed particular emphasis upon original research and the training of specialists. Under these conditions Clark University performed a unique function in higher education in America by devoting its attention exclusively to graduate study and research from 1889 to 1902.

For president of the new institution, Mr. Clark and the trustees selected Granville Stanley Hall, noted psychologist of Johns Hopkins University. In Worcester President Hall organized a faculty of brilliant scholars who earned an enviable reputation for the University and decisively shaped its character. In 1900, when the Association of American Universities was founded, Clark University was one of the fourteen charter members.

In the fall of 1902, in compliance with the will of Mr. Clark, the trustees established an undergraduate college, Clark College, for young men who sought, in three years' time, "preparation for citizenship and their work in life." The administrative staff and the faculty of the College were distinct from those of the Graduate School.

From the beginning, Clark College departed from the prevailing type of American college of that day. Seriousness of purpose and hard work on the part of undergraduates were demanded. Admission requirements were flexible, but a high standard of performance was enforced. The degree of Bachelor of Arts was granted after three years of study. Student programs were heavier than was common elsewhere. The ideas of Mr. Clark and the trustees were effectively developed in the educational program which was established during the term of office of Carroll Davidson Wright, who had resigned as first United States Comissioner of Labor to serve as President of the College. After the death of President Wright in 1909, Edmund Clark Sanford, Professor of Psychology in the Graduate School was chosen to be President of the College.

In 1920, following the resignation of President Hall of the Graduate School and President Sanford of the College, Wallace Walter Atwood, Professor of Physiography at Harvard University, became president of both the graduate and undergraduate departments of the University. The election of President Atwood marked the addition of geography at both the graduate and undergraduate levels to the instructional obligations of the University. The Graduate School of Geography, with President Atwood as Director, was organized to function within the general framework of the graduate offerings.

Following 1920, significant changes occurred also in the College. The normal period of residence for the degree of Bachelor of Arts was increased from three years to four and participation in intercollegiate activities was encouraged. In 1941, a program leading to the degree of Bachelor of Business Administration was introduced under the supervision of the Division of Business Administration. Also in 1941 the Women's College of Clark University was established by the trustees of the University and women have constituted an integral part of the undergraduate student body since the fall of 1942. The requirements for admission and for a degree are the same for men and women.

In 1946 President Atwood was succeeded by Howard Bonar Jefferson who, at the time of his selection, was Professor of Philosophy and Director of the School of Philosophy and Religion at Colgate University.

Worcester and the University

When plans for the new University were taking shape in Mr. Clark's mind, he enlisted the aid of a group of far-sighted and influential Worcester citizens from whom, later, the majority of his original Board of Trustees was chosen. In this was set a pattern for cooperation between the University and the community which has persisted throughout the history of the institution. The intellectual life of the city has been enriched by the contributions of the faculty and of distinguished guests whom the University has brought to Worcester. Members of the staff have served local institutions, both public and private, in many ways. The college has opened the door to higher education for hundreds to whom the opportunity would have been denied if they had been forced to seek it elsewhere, while the graduate school has aided the more gifted to proceed to the highest levels of intellectual endeavor. Particularly noteworthy has been the service to teachers in the public school system.

On the other hand, the University has benefited by the support, both financial and intangible, which it has received from the citizens of Worcester. The interchange of services and ideas with the staffs of other Worcester institutions and the opportunity to use their libraries on a reciprocal basis have been invaluable. There is particularly close coöperation between the Department of Fine Arts and the Worcester Art Museum, between the Department of History and International Relations and the American Antiquarian Society, and between the Department of Psychology and the Worcester State Hospital. The Worcester Public Library and the University Library coöperate by avoiding duplication in the coverage of certain subjects and by a corresponding widening of the coverage in the fields assigned to each.

In short, the University is conscious that it is a part of the community and that, as such, it has both obligations and benefits. Its steadfast purpose is to strengthen the pattern of mutual interdependence and coöperation.

Organization

The University includes:

THE GRADUATE SCHOOL offering instruction leading to the degrees of Master of Arts and Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering instruction leading to graduate degrees in Geography.

THE GRADUATE DIVISION OF INTERNATIONAL AFFAIRS offering instruction leading to graduate degrees in International Affairs.

THE COLLEGE FOR MEN (Clark College) offering a general college program leading to the degree of Bachelor of Arts and a vocational program leading to the degree of Bachelor of Business Administration.

THE COLLEGE FOR WOMEN offering a general college program leading to the degree of Bachelor of Arts and a vocational program leading to the degree of Bachelor of Business Administration.

THE UNDERGRADUATE DIVISION OF BUSINESS ADMINISTRATION which supervises the program in Business Administration in the undergraduate colleges.

THE EVENING COLLEGE offering programs leading to the degrees of Bachelor of Science in General Studies and Bachelor of Science in Business Administration.

THE LIBRARY, with an endowment separate from the endowment of the teaching branches of the University.

THE CLARK UNIVERSITY PRESS, associated with the University for the publication of scientific books and journals.

Buildings and Grounds

THE UNIVERSITY CAMPUS is situated on Main Street about a mile and a quarter from the business center of Worcester. The administrative and educational activities of the University are centered here. On adjacent property facing the campus on Woodland Street, are dormitories, the dining hall, and residences of the President and of the Dean of the College. A small athletic field, opposite the campus on Maywood Street, provides tennis courts and a running track. A larger field, at the corner of Beaver Street and Park Avenue, is used for baseball, soccer, and other sports. The Hadwen Arboretum, the gift of Obadiah B. Hadwen, is a tract of about twenty acres at the intersection of Lovell and May Streets.

THE MAIN BUILDING (Jonas G. Clark Hall), completed in 1889, is a four-story, granite and brick structure containing about ninety rooms. It houses the general academic offices of the University and the offices and classrooms of most of the departments of instruction.

THE SCIENCE BUILDING, also completed in 1889, houses the Departments of Physics and Chemistry.

THE LIBRARY BUILDING, completed in 1903, marked a departure from the style of the older buildings. Its design, which has been followed in all of the later University buildings, is a modern adaptation of the Gothic, using brick as the construction material. The original building, at the corner of Main and Downing Streets, was enlarged in 1910 by the addition of a wing extending along Main Street. Part of this wing is used for library purposes and it houses the Graduate School of Geography, the President's office and the offices of University Development and Public Relations. A second addition to provide for the growing book collections was added to the library in 1939. This is in the form of a tower which connects the Library Building with Atwood Hall.

ATWOOD HALL has its entrance on Woodland Street and extends along Downing Street to join the library tower. It provides an auditorium with a seating capacity of 800, which is used for weekly college assemblies and other university functions.

THE ALUMNI GYMNASIUM, completed in 1938, is at the corner of Main and Maywood Streets. It provides a playing floor of ample size with seats for 800 spectators. The Gymnasium also contains the offices of the Alumni Secretary and a comfortable lounge which provides a convenient and attractive meeting place for University organizations.

ESTABROOK HALL, at the corner of Woodland and Charlotte Streets, provides dormitory accommodations for men and contains the University Dining Hall.

WOMEN'S DORMITORIES. There are at present three women's dormitories, Fanning, Blakeslee and Woodland, all located on or adjacent to the campus.

The Library

MARION HENDERSON, *Acting Librarian*

SAMUEL OSGOOD, *Administrative Assistant*

R. WEBB NOYES, *Cataloguer*

GUY BURNHAM, *Map Librarian*

As is typical of any institution Clark University Library's collections are a reflection of the history of the institution which they serve. The early library was, as might be expected, primarily a scholar's collection, serving the needs of the men whom President Hall had assembled around him. In 1902 with the founding of Clark College an undergraduate library was established. Though these two collections were later merged to form the present University Library which now amounts to about 210,000 volumes, those classes representing subjects in which no graduate work is offered such as music and the fine arts, language and literature, philosophy and religion are still characteristically undergraduate in content.

The richest collections are of course in those fields in which graduate work is offered: geography, history and international relations, economics, psychology, chemistry, biology, and mathematics.

The psychology collection built up under the guidance of President Hall and to which he willed his own library is one of the best in the country for the period of Dr. Hall's activity. It is particularly rich in early runs of foreign journals.

Particularly noteworthy is the geography collection, assembled under the energetic direction of the late President Atwood and enriched in 1928 by the bequest by the late Col. William Libbey of Princeton, N. J., of his library, one of the finest geography collections in private hands in its time.

The library owns a collection of some 51,000 maps.

Under Mr. Clark's will, his books and paintings together with a fund for their maintenance and increase came to the University. The collections are housed in the library where a part of them are on display in a room set aside for the purpose.

Admission

Four classes of students are accepted in the University:

1. GRADUATE STUDENTS, candidates for the degrees of Master of Arts, Master of Arts in Education, and Doctor of Philosophy.

See the announcements of the graduate schools.

2. UNDERGRADUATES, candidates for the degrees of Bachelor of Arts and Bachelor of Business Administration in the Men's College or the Women's College.

3. SPECIAL STUDENTS, persons not prospective candidates for a degree, who wish to take advantage of the opportunities for study provided by the University and who give satisfactory evidence of adequate preparation for the work which they wish to undertake.

Special students are under the supervision of the College Board.

4. Students in the Summer School and in the Evening College who may or may not be candidates for a degree in Clark University.

AUDITORS may be admitted at the discretion of the administrative officers of the University. They pay the regular tuition charges but are not enrolled as students in the University and do not pay the matriculation fee.

The University reserves the right to require the withdrawal at any time of any student whose record in either conduct or scholarship fails to meet the expectations implied by his admission.

Inquiries concerning the Graduate School should be addressed to
The Secretary of the Graduate Board,
Clark University,
Worcester 10, Mass.

Inquiries concerning the colleges should be addressed to
The Dean of the Colleges,
Clark University,
Worcester 10, Mass.

Inquiries concerning the Evening College should be addressed to
The Director of the Evening College,
Clark University,
Worcester 10, Mass.

Tuition and Other General Charges

Tuition and other charges which apply generally throughout the University are listed below. Charges which apply to particular units of the University are listed with the announcements of the individual units.

Matriculation fee. Each student who is formally enrolled in the University pays the matriculation fee of $5.

This fee is paid but once, even though the student's periods of residence may be interrupted, and entitles the student to receive an official academic record of his performance as a student.

Tuition. The regular tuition charge for both graduate students and undergraduates is $600 for the academic year, September to June. The corresponding charge for each semester separately is $300.

Students who enroll for smaller-than-normal programs of courses (fewer than four courses in the case of undergraduates) are charged at the rate of $120 a year for each course. The corresponding charge for a single semester is $60 for a single course.

One half of the tuition for the year is due at the beginning of each semester. If payment according to this plan is inconvenient arrangements may be made through the Bursar's office for payment in regular installments or on other mutually agreeable terms.

Since University commitments are based to a large extent on enrollment and must be entered into at the beginning of the year for the entire year, the following regulation has been adopted by the Board of Trustees of the University:

"No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun."

Laboratory fees and deposits, dormitory charges, infirmary fees, the activities fee, etc., are listed in the announcements of the Graduate School and of the Colleges. Departmental fees are listed in the announcements of the individual departments.

Tuition and other fees for students in the Summer School and in the Evening College are listed in the special announcements of these activities.

The University Dining Hall

The University Dining Hall is operated for the convenience of all students and the staff of the University.

Undergraduates who do not live at home are required to eat at the Dining Hall. Other members of the University are welcomed on a permanent or temporary basis or for single meals.

Attractive and well-balanced meals are served at a price which is fixed to cover only the cost to the University.

For the academic year 1953-54 the dining hall charges are $190 per semester, payable in advance or in four payments of $47.50 each on the first day of October, November, December and January. Transient patrons pay by the single meal at correspondingly reasonable rates.

Fellowships, Scholarships and Loans

Fellowships and scholarships are provided by the University from endowed funds and from other sources. Pecuniary aid to students is available also in the form of grants from a number of special funds. A limited amount of part-time employment is available in the various offices and departments of the University. Frequently, as in the case of departmental assistants, this is of a kind which yields useful experience.

Loans for educational purposes are available from a number of funds which have been created for this purpose.

Many scholarships and educational loans are provided by local sources in communities throughout the nation. Any interested person should address inquiries to school officials, churches, fraternal organizations, chambers of commerce, etc.

Detailed statements and lists of the individual funds may be found in the announcements of "The Graduate Schools" and "The Colleges."

Placement Bureau

The University maintains a Placement Bureau, with offices in Room 111 Jonas G. Clark Hall for the purpose of providing employment information to seniors, graduate students, and alumni. Students seeking employment after graduation are urged to register with the Bureau during the fall of their last year of residence. Credentials which the student places on file should be as complete as possible and carefully prepared since they may be used over an indefinite period to supply information to employers. The Bureau makes available up-to-date information about job openings and schedules interviews between students and representatives of employing firms.

Students who want part-time employment are also invited to make use of the Bureau's services.

The Graduate Schools

The Graduate School

- Admission
- The Degree of Master of Arts
- The Degree of Doctor of Philosophy
- Fellowships, Scholarships and Other Aids
- Tuition and Other Fees

The Graduate School of Geography

The Graduate Division of International Affairs

The Graduate School

The Graduate School of Clark University offers instruction and facilities for independent study to both men and women.

The following general information concerning the Graduate School applies also to the Graduate School of Geography and to the Graduate Division of International Affairs. Later, under the headings "The Graduate School of Geography" and "The Graduate Division of International Affairs" there is additional information which applies only to these special branches of graduate activity.

Correspondence concerning the Graduate School should be addressed to:

The Secretary of the Graduate Board,
Clark University,
Worcester 10, Mass.

Programs leading to the degrees of Masters of Arts and Doctor of Philosophy are available to qualified holders of a bachelor's degree or others of similar attainments in the following fields:

Chemistry
Economics
Geography
History
International Affairs
Psychology

The degree of Master of Arts is offered also in the following fields:

Biology
Education
(Master of Arts in Education)
Physics
Sociology

The departments which are not at present organized to accept candidates for graduate degrees offer numerous courses, in fields other than those named above, which are suitable for inclusion in the programs of graduate students.

Scholarships and fellowships are available for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy respectively.

ADMISSION TO THE GRADUATE SCHOOL

Admission to the Graduate School may be granted only by the Graduate Board on the recommendation of a department.

Application. A prospective applicant should communicate with the department in which he expects to do his major work. If he is encouraged by the department to make application, he will be provided with application blanks. These should be returned to the chairman of the department with an official transcript of undergraduate work, letters of recommendation from two persons who are competent to judge the applicant's qualifications, and a recent photograph (passport size is preferred).

In addition, applicants for admission to the graduate school are strongly urged, and may be required, to submit a record of attainment in the Graduate Record Examination. This examination tests general knowledge in the field of study covered by the curriculum of the liberal arts college. It is useful as an indication of the general preparation of the student, and as a guide in planning his course of study.

Admission. In granting admission, the Graduate Board may, with the advice of the department, prescribe a minimum period of residence, never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School is granted for entry only at a specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered the University as a regular student, his period of graduate study is broken by more than a year, he must make formal application for reinstatement.

Admission to the Graduate School does not imply admission to candidacy for a degree.

Admission of college seniors to graduate courses. Seniors in the Men's College or the Women's College who rank in the upper third of the senior class may, in exceptional cases, be admitted to courses "primarily for graduate students" provided petitions for admission are approved by the College Board and the secretary of the Graduate Board.

THE DEGREE OF MASTER OF ARTS

An academic year of full-time study in residence, or its strict equivalent in summer sessions and part-time study, is a minimum requirement for a master's degree. Residence study is broadly defined as graduate work done at Clark University under the immediate personal supervision of at least one member of the university faculty.

A reading knowledge of a foreign language, usually French or German, may be required of candidates for the degree of Master of Arts at the discretion of the major department.

Application for admission to candidacy for a master's degree should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for this degree.

Applications will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university;
2. Obtained the written endorsement of his major department;
3. Paid the diploma fee ($10) and publication fee ($10).

Candidacy for the degree of Master of Arts holds good for three years from the date of admission to candidacy. For satisfactory reasons, candidacy may be extended once for an additional period of three years by vote of the Graduate Board. If the candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, are returned.

Course requirements. Each student must meet a minimum course requirement of five courses, or their equivalent in half courses. The program must be approved by the major department. One of the courses may be a research course devoted to the preparation of the thesis.

Thesis. The thesis will be written on a topic in the field of the student's special interest under the supervision of a member of his major department. A copy of the thesis, together with a précis, approved by the supervising instructor, must be deposited in the Registrar's office not later than three weeks before the date of the Commencement at which the degree is to be conferred. A second copy of the thesis, with a copy of the précis, must be delivered to the major department. The précis must not exceed seventy-five words in length.

The thesis is deposited by the Registrar in the University Library. The précis is printed by the University in an annual publication.

Each candidate must make a satisfactory record in such written examinations as may be required by the major department, and in a final oral examination by a committee of three or more, two of whom must be members of the Graduate Board.

THE DEGREE OF DOCTOR OF PHILOSOPHY

Only such candidates as give evidence of general proficiency, power of investigation, and high attainments in the special fields in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

Requirements in foreign languages. A prospective candidate for the doctor's degree is advised to prepare himself early for the examinations in the reading of modern foreign languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these. A student must pass the foreign language examinations before he will be permitted to take the preliminary examination for the degree of Doctor of Philosophy. The language examinations are conducted by a committee composed of representatives of the modern language departments and a representative of the student's major department. The committee reports the results of the examination to the Registrar. Additional language requirements may be imposed by the student's major department.

Admission to candidacy. Applications for admission to candidacy must be filed not later than November first in any academic year, by students who hope to receive the degree at the end of that academic year.

An application for admission to candidacy will be considered by the Graduate Board when the applicant has:

1. Completed two full academic years of graduate work (or its equivalent in part-time work), one of which must be at Clark University;
2. Passed the required examinations in foreign languages;

3. Passed a preliminary examination in his chosen fields of study;
4. Obtained the written endorsement of his major department;
5. Paid the diploma fee ($25) and publication fee ($30).

Candidacy for the degree of Doctor of Philosophy holds good for three years from the date of admission to candidacy. For satisfactory reasons, candidacy may be extended once for an additional period of three years by vote of the Graduate Board. If candidacy expires without the degree having been awarded, the diploma fee and publication fee, less any expenses incurred, are returned.

Dissertation. A dissertation which is expected to make an original contribution to some special field of knowledge is required of each candidate.

The dissertation, with comments of the chief instructor and other readers, is laid before the examining committee at the final oral examination.

An abstract of the dissertation, approved by the instructor under whom it was written and not exceeding 600 words in length and a précis, not exceeding 75 words, are also required.

Two copies of the dissertation, each with an official title page and life history page, two copies of the abstract and a copy of the précis must be provided in a form which is prescribed and each copy must be signed by the chief instructor.

Four weeks before the date of the Commencement at which the degree is to be conferred the first, or ribbon, copy of the dissertation, together with the corresponding copy of the abstract and the précis must be delivered to the Registrar of the University. The Registrar deposits the dissertation and the abstract in the University Library where they remain permanently. At the same time the second copy of the dissertation and of the abstract must be delivered to the major department.

A microfilm copy of each dissertation is made by University Microfilms, Incorporated, of Ann Arbor, Michigan, and is available for duplication by them on request. The abstract is printed in *Dissertation Abstracts,* which is widely distributed both in this country and abroad to subscribing libraries and leading abstracting services. The précis is printed in an annual publication by the University.

Final examination. The final examination is oral and lasts for at least two hours; additional written examinations may be given if the major department so directs. The candidate is expected to defend his dissertation and, at the discretion of the examining committee, may be questioned on the entire special field of his study. The oral examination is conducted by a committee of at least four members, including the chairman and one other member of the major department, a member of the Graduate Board under whom the candidate has done no work (unless such a member has participated in the preliminary examination of the candidate), and such other members of the Graduate Board as may be duly appointed. The president of the university is authorized to invite any person from within or without the University to be present and to assist in the examination.

GRADUATE FELLOWSHIPS, SCHOLARSHIPS AND ASSISTANTSHIPS

Graduate fellowships and scholarships are provided by the University from endowed funds and from other sources. Pecuniary aid to graduate students is available also in the form of grants from a number of special funds. A limited amount of part-time employment is available in the various offices and departments of the University. Frequently, as in the case of departmental assistants, this is of a kind which yields useful experience.

Loans for educational purposes are available from a number of loan funds on terms which are stated under the heading *Loans for Graduate Students.*

Both outright grants and loans for educational purposes are provided in many sections of the United States by local foundations, fraternal organizations, civic groups, etc.

Graduate fellowships and scholarships are available for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy. Appointments are made on the basis of scholarly promise and seniority and on the recommendation of the departments. The number of appointments available in any department varies from year to year. Fellows and scholars are expected to coöperate with the staffs of the various departments, and may by mutual agreement undertake limited responsibilities. They are never called upon to perform services which would interfere with the completion of a full-time program of graduate study.

In a case where assistance in the department, either in research or teaching, is to be a duty of the fellow, an appointment may be designated as a research fellowship or a teaching fellowship. An appointment of this nature is made on the recommendation of the department and with the consent of the applicant.

Assistantships are available in certain departments. Appointments to these positions are usually made from the list of fellows. Application should be made to the chairman of the department.

Application for a scholarship or fellowship should be made before March first to the chairman of the department in which the applicant expects to do his major work. An application, after being endorsed by the department, goes to the Graduate Board for final action.

According to an agreement between the members of the Association of American Universities, elections of fellows and scholars will be communicated on April first, but not before, to each member of the Association and to each successful candidate.

Stipends for graduate fellowships and scholarships are provided by the following funds:

The George Frisbie Hoar Fund, the gift of Andrew Carnegie in honor of the second president of the Board of Trustees.

The Austin S. Garver Fund, a bequest from Austin S. Garver, member of the Board of Trustees from 1908 to 1918.

The Charles H. Thurber Fund, provided by Charles H. Thurber, member of the Board of Trustees from 1913 to 1938 and President of the Board from 1919 to 1937.

The George S. Barton Fund, a bequest from the Honorable George S. Barton of Worcester. The income of this fund is for the benefit of native born citizens of the City of Worcester.

The Alumni Association Fund, provided by alumni who hold the degree of Doctor of Philosophy, is for the benefit of students who are studying for that degree.

Teaching fellowships are available in certain departments. These involve a specified amount of instruction with stipends which vary according to the amount of service agreed upon.

Assistantships are available in several departments. These positions involve a variety of services with stipends to correspond, and usually provide the student with experience which will be useful in his later professional work.

Inquiries concerning any of the above types of appointment should be addressed to the chairman of the department concerned.

AID FOR GRADUATE STUDENTS

Student aid is available from the following funds, with the restrictions noted.

The John White Field Fund established by Mrs. Eliza W. Field to provide for the minor needs of a scholar or fellow.

The Eliza D. Dodge Fund. The income of this fund is granted to graduate students of limited means who are engaged in research work.

The Chester Bland Fund. The income of this fund is preferably used to provide aid to a promising student, either in residence or engaged in research elsewhere under the direction of the department of History and International Relations. It may also be used to defray the expense of visiting lecturers or of departmental research.

The Morton L. "Sonny" Lavine Foundation, a memorial to Lieutenant Lavine of the United States Army, World War II. The income is to be used for the promotion of research in the Department of History and International Relations.

LOANS FOR GRADUATE STUDENTS

Loans are available for graduate students from the following funds. These loans bear interest at four per cent per year.

Applications for loans should be made at the office of the Treasurer.

The Mary S. Rogers Scholarship and Loan Fund was established in 1926 for the benefit of students in the Graduate School.

The Sarah M. Thurber Loan Fund was established by the late Dr. Charles H. Thurber, former president of the Board of Trustees as a memorial to his mother.

TUITION AND OTHER FEES

Matriculation fee. This fee, $5.00, is collected from every student before he is formally enrolled in the University. Official academic records are issued to matriculated students only.

Tuition. The regular tuition charge of the University is $600.00 per year, payable in two equal installments, at the beginning of each semester.

Students who are enrolled for less than a full-time program are charged at the rate of $60.00 per course per semester.

Miscellaneous fees.

Graduate students in geography pay a camp fee, a workroom fee and a classroom-materials fee. Details are given in the announcement of the Graduate School of Geography.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

Graduate students who use the gymnasium pay a fee of $10 per year.

Dining Hall. The University Dining Hall provides well balanced meals served in attractive surroundings at the rate of $190.00 per semester. For shorter periods and for single meals there is a correspondingly reasonable charge.

The Graduate School of Geography

SAMUEL VAN VALKENBURG, Ph.D., Director of the Graduate School of Geography and Professor of Geography

RAYMOND E. MURPHY, Ph.D., Professor of Economic Geography; Editor, *Economic Geography*

*RICHARD J. LOUGEE, Ph.D., Professor of Physiography

**HENRY J. WARMAN, Ph.D., Associate Professor of Geography; Secretary of the Graduate School of Geography

EDWARD C. HIGBEE, Ph.D., Associate Professor of Geography

DIETER BRUNNSCHWEILER, Ph.D., Assistant Professor of Geography

GUY H. BURNHAM, A.M., Cartographer and Instructor in Geography

ERWIN RAISZ, Ph.D., Visiting Lecturer on Cartographic Techniques

HASSAN AWAD, Ph.D., Visiting Lecturer in Geography

SPECIAL LECTURERS, 1953-1954

PRESTON E. JAMES, Ph.D., Head, Department of Geography, Syracuse University

EARL B. SHAW, Ph.D., Professor of Geography, State Teachers College, Worcester, Mass.

TREVOR LLOYD, Ph.D., Professor of Geography, Dartmouth College

The Graduate School of Geography offers opportunity to properly qualified students for advanced training in geography. The map collection, libraries, and special laboratories for cartography provide unusual facilities for research work in residence. The Staff, composed of specialists in their various fields of geography, must spend part of their time in travel and field studies. While in residence, the staff members offer regular courses of instruction and direct advanced students in research work. Special lecturers, both American and foreign, supplement the regular Staff. Not all courses of instruction are offered each year; many are given in alternate years. All graduate students are encouraged to undertake independent field studies as part of their university work.

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*Absent on leave, 1953-54.

**Absent on leave, second semester 1953-54.

GRADUATE WORK IN THE SCHOOL OF GEOGRAPHY

(Please read also the preceding section of this catalogue, under the heading "The Graduate School".)

The degree of Master of Arts

Work is offered leading to the degrees of Master of Arts and Doctor of Philosophy in Geography. Candidates for the master's degree will pass written examinations in at least six of the following fields: physiography, climatology, soils, biogeography, land utilization, economic geography, human geography and cultural geography, regional geography, political geography, and urban geography. The oral examination for the master's degree covers four fields approved by the Staff. The master's degree requires two years except for those whose preparation has been adequate enough in fundamentals to enable them to qualify in less time.

The degree of Doctor of Philosophy

Candidates for the doctor's degree in geography are required to submit superior written examinations, and to pass a general oral examination covering six fields approved by the Staff. This oral examination will be scheduled after the language requirement is fulfilled. In general, a year of work beyond the master's degree should prepare a candidate for the general examination preliminary to his acceptance as a candidate for the doctor's degree and to his concentration work for his dissertation. This year of course work may well include, besides certain advanced courses in geography, related advanced studies in other fields.

Theses and dissertations

The master's thesis must be submitted to the major professor at least three weeks before it is to be deposited with the Registrar. This is necessary since theses must rotate among and receive final approval of all staff members. Doctoral dissertations must be submitted at least four weeks before the completed copies are due at the office of the Registrar. Dissertations must be circulated first and then defended. Since the final copy of dissertations is on special thesis paper, it is requested that candidates submit for staff circulation the next-to-final drafts. Such a procedure facilitates changes before the dissertations are typed in final form.

Attention is called to the fact that all dissertations are now reproduced in full on micro-film. Since maps and other graphic devices in color will not reproduce satisfactorily, it is recommended strongly that such features be done in black and white for the master copies of dissertations.

DISTINCTIVE FEATURES

In addition to its location in a natural setting rich in physical attributes worthy of investigation, the Clark University Graduate School of Geography is within easy access of such research centers as Harvard and Yale Universities, Boston cultural centers and the American Geographical Society in New York.

The Clark Graduate School has become a traditional "port of call" for most professors of geography in this and other countries. Their stays have ranged from one hour to as long as six months or a year. Clark graduate students are invited to, and do, visit with these leaders in the field of geography.

The graduate students are assigned desks and shelves in the Geography Workroom on the first floor. Staff offices are located on the floor immediately above; hence conferences are easily and frequently arranged. Both workroom and classroom have immediate connections with the periodical room and the open shelves of the library. A general conference room where visiting professors are made welcome and where seminars are held is located on the first floor in the Libbey Library.

Each year the workroom group elects its own officers. Management of the workroom activities and publication of *The Monadnock,* which has kept Clark Geography alumni in their many and widespread occupations informed for over thirty years, is the responsibility of the workroom officers.

The professional magazine, *Economic Geography,* is edited by a staff member. Launched at Clark University over a quarter of a century ago, it is the only magazine published in English that specializes in the economic phases of geography.

An outstanding feature of the Graduate School of Geography is the field camp of three weeks' duration at the beginning of the fall term. All resident prospective candidates for graduate degrees in geography are expected to attend the field camp each autumn. The field program includes studies in physiography, land utilization, urban geography and weather, with special training in mapping and other field techniques. Following the return to the campus, about ten days are allowed for the completion of field reports. Formal course work begins on the second Monday after the close of the field camp.

Formal course work in geography ends about May 1st, leaving students free to read and to coordinate their work prior to the examination period.

The Alpha Sigma Chapter of Gamma Theta Upsilon, national geography fraternity, provides professional and social affiliations between graduate and undergraduate geography majors.

SPECIALIZATION

There are certain basic courses that everyone takes, particularly prospective candidates for the master's degree. However, with the increasing complexity of world problems it has become impossible for anyone to be proficient in all phases of geography. Realizing this, candidates for the Doctor's degree are encouraged to specialize. The selection of the specialty depends upon the interests of the student, his choice of courses, and the topic for his dissertation.

STUDENTS' FEES

All geography students in residence must pay, in addition to the general university fees, the camp fee, the workroom fee, and the classroom-materials fee.

The camp fee, determined on a cost basis, varies between $50 and $80, payable to the camp director on or before the first day of camp. The camp fee covers in addition to tuition, board and lodging, transportation, maps, drafting supplies, and the use of meteorological instruments and other equipment for the three weeks' period.

The workroom fee, $5 a semester, is payable to the department November first and March first. It helps to maintain the geography workroom and equipment used by graduate students—alcove desks, files of maps, card catalogue, adding machine, darkroom facilities, drafting tables, and instruments.

The classroom fee, $5 a semester, is payable to the department November first and March first. It is for mimeographing and for the maintenance, in part, of the classroom wall maps and other equipment.

The Graduate Division of International Affairs

Geography, Diplomacy, Economics

ADMINISTRATIVE COMMITTEE

JAMES A. MAXWELL, *Professor of Economics.*

SAMUEL VAN VALKENBURG, *Director of the Graduate School of Geography.*

DWIGHT E. LEE, *Professor of Modern European History.*

The Graduate Division of International Affairs aims to meet a demand for graduate work which will be devoted entirely to the general field of international affairs and which will include work in geography, history and international relations, and economics. This division groups together appropriate courses and seminars in order to prepare graduate students for the government service of the United States, college and university professorships in international affairs, posts in corporations and banks doing foreign business, and research and administrative positions in the field of world affairs. The courses include offerings in political, regional and economic geography; foreign trade, commerce, and finance; international law; modern and diplomatic history; and the foreign policy and international relations of the United States.

ADMISSION

Qualified graduate students who are interested in a program in International Affairs are enrolled either in the Department of History and International Relations or in the Department of Economics and Sociology or in the Graduate School of Geography. Inquiries and applications may be addressed to any one of them.

PROGRAMS

Programs in International Affairs are adjusted to the special interests of the individual students. Programs are arranged in consultation with the staff and require the approval of the committee in charge of the division.

The Undergraduate Colleges

- The Colleges
  - Admission
  - Induction and Registration
  - Student Programs
  - Requirements for a Bachelor's Degree
  - Grades and Examinations
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  - General College Regulations
  - Fees and Expenses
  - Student Activities
  - Scholarships and Loans
- The Men's College
- The Women's College
- The Division of Business Administration

The Undergraduate Colleges

The Men's College, established in 1902, and the Women's College, established in 1942, constitute the undergraduate colleges in Clark University. Financially the two colleges are independent, educationally they operate as a unit.

Requirements for admission and for a degree are identical in the two colleges with the exception of required physical training and health education.

The colleges offer educational programs in the field of liberal arts and in the professional field of Business Administration. A special program which combines the essentials of the liberal arts program with basic training in art is offered in cooperation with the Worcester Art Museum.

The liberal arts program emphasizes breadth of training through requirements in each of the principal areas of human culture combined with the intellectual discipline resulting from a moderate degree of concentration in some selected field of special interest. The program, including the offerings made in cooperation with the Worcester Art Museum, possesses a large degree of flexibility permitting adaptation to a wide variety of individual interests. This program leads to the degree of Bachelor of Arts.

The program in business administration is designed to give a training suitable for those who will occupy positions of responsibility in the fields of commerce and industry. A moderate degree of specialization in some field of administration is combined with broad consideration of the principles and techniques of modern business and of the inter-relations between business and the society within which it operates. This program leads to the degree of Bachelor of Business Administration.

The Division of Business Administration is the agency which supervises the college program in business administration.

A program leading to the degree of Bachelor of Arts in which the essentials of a liberal education are combined with sound professional foundations in art is offered in cooperation with the

Worcester Art Museum. Details of this program are given in the announcement of the Department of Fine Arts.

Information which is of interest to all students in the colleges is given in the succeeding pages, followed by separate announcements of the Men's College, the Women's College and the Division of Business Administration.

Admission

Inquiries concerning admission and requests for blank forms should be addressed to

The Dean of the Colleges,
Clark University,
Worcester 10, Mass.

Formal application for admission should be made at the earliest possible date.

Each application should be accompanied by the scholastic record of the applicant, and a deposit of five dollars. The deposit is used to pay the university "matriculation fee" if the applicant is accepted. It is returned if he is not accepted. Each application should also include the names and addresses of three responsible persons who are qualified to give information regarding the character and personality of the applicant.

ADMISSION TO THE FRESHMAN CLASS

An application for admission to the freshman class should, if possible, be presented not later than the middle of the applicant's last year in the preparatory school.

The completion of a four-year high school course or its equivalent, including fifteen acceptable units of credit, is normally required for admission to the undergraduate colleges. The term "unit" is understood to mean approximately one quarter of a pupil's normal program for the school year.

An applicant must furnish official records from all preparatory schools which he or she has attended. Records of scholastic aptitude tests and of College Board examinations are always of value and may be required.

The subject matter requirements for admission to the freshman class are as follows:

For the Degree of Bachelor of Arts

Required subjects, 7 units

English (four years)	3 units
**Mathematics* (algebra and geometry)	2 units
†*Foreign language* (in one language)	2 units

Restricted electives, 5 or more units in addition to the required units

Mathematics	1 or 2 units
‡*Foreign language*	1 to 4 units
Social sciences (history, government, civics, economics, etc.)	1 to 3 units
Natural sciences (physics, chemistry, biology, etc.)	1 to 3 units

Free electives, not more than 3 units

Subjects recognized by the applicant's preparatory school in its regular program, at the discretion of the Committee on Admissions.

For the Degree of Bachelor of Business Administration

Required subjects, 8 units

English (four years)	3 units
Mathematics (algebra)	1 unit
†*Foreign language* (in one language)	2 units
Social studies	2 units

Elective subjects, 7 units

Subjects recognized by the applicant's preparatory school in its regular program, at the discretion of the Committee on Admissions.

As many as three of these units may be in "commercial subjects".

Quality Requirements. "Certification" by the principal of the preparatory school in at least thirteen of the fifteen required units is normally necessary for admission without examinations. An exception may be made if the applicant ranks in the upper quarter of the class with which he graduated or if the principal is willing to give a "blanket certification" without consideration of specific subjects. In the latter case the principal accepts complete responsibility for the applicant's success in college.

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*Applicants expecting to specialize in science are advised to present at least three units of mathematics.

†Normally required.

‡A single "beginning unit" in a foreign language is not recognized as an acceptable unit.

Entrance Examinations. Applicants who cannot present the necessary number of certified units should arrange, in consultation with the Dean of the college, to take examinations which are given by the College Entrance Examination Board. The college will determine in each case what constitutes a satisfactory record in such examinations.

A bulletin of information concerning these examinations may be obtained without charge from the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey, or, for the far west, from P. O. Box 9896, Los Feliz Station, Los Angeles 27, California. Inquiries should be sent to the Board at least one month in advance of the dates of the examinations, which are scheduled for March 13, May 22, and Aug. 11 in 1954.

ADMISSION WITH ADVANCED STANDING

A student who wishes to enter the college after attending another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his, or her, academic record at the institution last attended, and such other information as the Committee on Admissions may request. If admitted, the applicant will be provisionally classified as a freshman, sophomore, junior, or senior and will be permitted to register for a program of studies corresponding to this classification. After a semester in residence with a satisfactory record, appropriate credit for courses of college grade which have been completed elsewhere will be recorded.

A graduate of the three year course of the Worcester Art Museum School may be admitted as a candidate for the degree of Bachelor of Arts with the rank of *junior* in the college. In such cases the usual admission requirements must be met and the general subject-matter requirements of the colleges must be satisfied.

The bachelor's degree will not be conferred upon a student until he has spent at least a year in residence at Clark University, and usually not unless the period of residence includes the two semesters immediately preceding the granting of the degree.

ADMISSION OF SPECIAL STUDENTS

Applicants for admission as special students should address their inquiries to the Dean of the Colleges and should be prepared to supply evidence of qualification for the study which they wish to undertake.

Induction and Registration

INDUCTION PERIOD

All freshmen, both men and women, and all upper-class women who are entering the University for the first time meet for a few days preceding the opening of the academic year in September for an induction period.

Details are given in the announcements of the separate colleges. There is a fee of ten dollars for the induction period.

FACULTY ADVISERS

When a student is admitted to either the Men's College or to the Women's College he or she is assigned to a member of the faculty who advises the student in respect to a program of courses and other matters. At the beginning of the freshman year the advisers are chosen from a limited group of freshman advisers. Later each student is encouraged to select an adviser of his or her own choosing. A change of advisers may be made on formal request addressed to the Dean.

The adviser assists the student in choosing his program of studies and is available at all times for consultation on any matter which the student may wish to discuss with him. Ideally the adviser-student relationship develops into a relationship of mutual regard which frequently endures long after the college course has been completed.

REGISTRATION

Each student is required to register for a detailed program of courses at the beginning of every semester. Official notice is given well in advance of the dates on which registration is required. Failure to register within the period designated involves a charge of one dollar for each day's delay up to a maximum of five dollars.

Changes in registration may be made, with the approval of the student's adviser, for a limited time after the end of the registration period. Later changes involve a formal petition to the College Board.

After the first four weeks of any semester withdrawal from a course normally involves a record of "failure" in the course. An exception to this regulation is made in cases where the withdrawal reduces the student's program from six courses to five.

Student Programs

An undergraduate student normally carries a program of five courses throughout the academic year, September to June, in addition to required physical training. In general it is expected that a course meeting three times weekly will require a minimum of two hours of preparation for each lecture or recitation. Laboratory periods are usually three hours in length.

A student carrying the regular program should, therefore, expect his college work to require from forty-five to fifty hours of his time per week, in addition to the time required for physical training.

College regulations are designed to permit a large degree of freedom in the adjustment of programs of study to individual differences of interest. Even in the freshman year, when the program is largely determined by the degree for which the student is enrolled, each student makes certain individual choices where alternative requirements or free electives are involved. Such choices deserve the most careful consideration since they frequently affect the general pattern of a student's program for the entire four years of the college course.

FRESHMAN PROGRAMS

A freshman must choose his entire program from courses designated as "open to freshmen."

The following programs are required in the freshman year:

For the Degree of Bachelor of Arts

1. *English 11,* Composition and Literature.
2. *A course in a foreign language.*
3. *A course in "Group A,"* science and mathematics.
4. *A course in "Group B,"* social sciences.
5. *An elective.*

   Mathematics 11 must be elected by students who expect to choose a major in Group A. This includes both pre-medical and pre-dental students.

For the Degree of Bachelor of Business Administration

1. *English 11a.* Composition. First semester.

   Business Administration 14b, Business English. Second semester.
2. *Business Administration 10a,* Elements of Distribution. First semester.

   Business Administration 10b, Elements of Production. Second semester.
3. *Business Administration 117,* Principles of Accounting.
4. *Business Administration 13,* Business Mathematics.
5. *An elective.*

SOPHOMORE PROGRAMS

A sophomore must give priority in his program to any subject requirements which remain to be satisfied and should provide for an introduction to the field or subject in which a "major" or an "integrated program" will be chosen. The remaining elective choices provide the opportunity for each student to broaden the range of his interests.

The selection of a major subject is required of candidates for the degree of Bachelor of Arts at the time of registering for the sophomore year.

Sophomores may elect any course designated by a number beginning with the numeral 1, indicating "primarily for undergraduates"; they are not admitted to courses "for advanced undergraduates and graduate students," designated by numbers beginning with the numeral 2.

JUNIOR AND SENIOR PROGRAMS

Programs for the junior and senior years should be planned as a unit. This brings the entire college course under scrutiny; concentration, balance and diversity can be seen in relation to each other and adjusted to desired proportions; the inevitable choices between desirable courses, since all cannot be included in the program, can be made and costly mistakes due to haste and the overlooking of important facts can be avoided. Failure so to plan may result in the omission of important courses because of conflicts in the schedule or the alternation of courses in successive years. The requirement of a comprehensive examination should be constantly kept in mind.

The selection of an "area of concentration" is required of each candidate for the degree of Bachelor of Business Administration before the beginning of the junior year.

Juniors and seniors may elect any courses "primarily for undergraduates" or for "advanced undergraduates and graduate students" subject to any conditions stated in the descriptions of the courses. Under special conditions and with the approval of the College Board and of the Secretary of the Graduate Board in each case, seniors who rank in the upper third of their class may be admitted to courses "primarily for graduate students" designated by numbers beginning with the numeral 3.

ACCELERATED PROGRAMS

At least three years of college study in residence is required for a bachelor's degree. A student may earn the degree in this minimum time, or in three and one-half years, if he is prepared to make the additional effort which is required and is able to maintain the required level of scholarship.

Such accelerated programs are possible through a combination of six-course programs during the regular academic year and attendance at summer schools. Credit toward a degree for study at a summer school is granted only when it is officially authorized in advance in each individual case.

To complete the requirements for a bachelor's degree at the end of three years it is necessary for a student to carry a six-course program through all three years and to attend two six-week summer schools. Only students of exceptional ability and in excellent physical condition are advised to undertake such a program. To complete the requirements for a bachelor's degree at the end of three and one-half years it is necessary for a student to accumulate, within that time, credit for two and one-half courses in addition to a regular program. This may be accomplished without attendance at summer school if the student carries a six-course program through two and one-half years. More commonly a student will attend two summer schools and carry a six-course program through three semesters, or attend three summer schools and carry six courses through two semesters.

SIX-COURSE PROGRAMS

A student whose average grade for any semester is C+ or better is permitted to register for a program of six courses for the following semester.

A senior whose graduation within the academic year depends on the completion of a six-course program during that year may register for such a program in either semester if his average grade for the preceding semester is C– or better.

A freshman may normally register for a program of six courses in the first semester of his freshman year. In subsequent semesters he is subject to the regulation stated above.

There is an additional tuition charge of fifty dollars* for each semester in which a student registers for a six-course program.

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*Sixty dollars, beginning September 1954.

SMALL PROGRAMS

Under special circumstances programs of fewer than five courses may be permitted. In general no change of status or of obligation is involved when a student's program is reduced to four courses, nor is there any reduction in the charge for tuition.

A student whose program consists of fewer than four courses is designated as a part-time student. Part-time students are excused from the requirement in physical training, are not required to attend the weekly assembly and do not pay the "activities fee". They are charged for tuition at the rate of fifty dollars* for each course in each semester.

PROGRAMS FOR SPECIAL STUDENTS

Special students register for such programs as they agree upon in consultation with the instructors concerned. They are not required to attend the weekly assembly nor are they subject to a requirement in physical training. Special students who register for programs of four or more courses are required to pay the activities fee; others are not required to pay this fee.

Special students pay tuition at the rate of sixty dollars for each course for each semester.

Requirements for a Bachelor's Degree

The fields in which instruction is offered in the colleges are classified for administrative purposes in four "groups" as follows:

GROUP A (Science and Mathematics). Biology, botany, chemistry, experimental psychology, geology, mathematics, physics, and physiology.

GROUP B (Social Sciences). Economics, education, geography, government, history, international relations, philosophy, psychology, and sociology.

GROUP C (Language and Literature). Greek, Latin, English, French, German, Russian, Spanish, and an interdepartmental course in language and literature.

GROUP D (Fine Arts). Art and Music.

All college regulations involving a quantitative statement of credit are expressed in terms of courses.

A course as a unit of credit normally implies three or four class meetings or laboratory exercises per week throughout two semesters and constitutes one-fifth of a student's normal program. Where departments offer fractional courses, these will be combined in reckoning a student's total credit in courses. Students admitted to classes primarily for graduate students receive credit of one-half course per semester irrespective of the number of class meetings.

A student in good standing who completes the requirements for either the degree of Bachelor of Arts or the degree of Bachelor of Business Administration as stated below will be recommended for the corresponding degree unless, in the judgment of the College Board, there is cause for withholding the recommendation.

GENERAL REQUIREMENTS FOR A BACHELOR'S DEGREE

The following requirements, 1 through 5, apply to all candidates for a bachelor's degree.

1. *Residence.* Not less than three academic years of college study in residence. At least one full year and usually the last year before the degree is conferred must be spent at Clark University. A year in residence signifies the satisfactory completion of five year courses at Clark University.

2. *Course requirements.* Twenty courses in addition to required physical training, except in the case of veterans who are eligible for benefits under Public Laws 16 or 346 as amended by Public Law 268, and veterans who are eligible under Public Laws 550 and 894. Such veterans will normally be graduated on the completion of nineteen courses, credit for the twentieth course being granted for military service and miscellaneous training in service.

   A satisfactory scholarship record must be maintained throughout the entire program.

3. *Comprehensive examinations.* Beginning with the Class of 1953, a satisfactory record in a comprehensive examination is required of every candidate for a bachelor's degree in Clark University with the exception of those in the liberal arts program whose majors are in the fields of Biology, Chemistry or German.

4. *Physical training.* Three years of physical training, two hours per week. Veterans who have completed the basic training for any branch of military service and those who served in the Merchant Marine are excused from the requirement in physical training.

5. *Assembly.* Attendance at a weekly assembly is required.

Requirements 4 and 5 are in addition to the course requirements as stated above.

In addition to the general requirements 1 through 5, the following special requirements apply to candidates for the degree of Bachelor of Arts and for the degree of Bachelor of Business Administration respectively.

A. Special Requirements for the Degree of Bachelor of Arts.

6A. *A major.* Seven courses.

The major will normally include certain of the courses specified in the following requirements.

7A. *Group A.* Two courses, one in each of two different fields.

8A. *Group B.* Two courses, one in each of two different fields.

9A. *Foreign language.* Minimum, one course.
   a. One course in the freshman year.
   b. One course at or beyond the level of a third year college course.

10A. *English.* One and one-half courses.
   a. English 11. In the freshman year.
   b. An additional half-course in English.
   c. Satisfactory proficiency in the use of English.

11A. *Fine Arts.* A half-course chosen from a specified list.

NOTES ON SPECIAL REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

6A. Majors.

A departmental major consists of seven courses designated by the department for this purpose. Four or five of these must be courses in the major subject; the remaining courses must lie in fields of study closely related to the major subject.

For the completion of an acceptable major at least eleven of the fourteen semester grades involved must be higher than C–.

Mathematics 11 is a requirement in the freshman year for a student who intends to major in group A, including pre-dental and pre-medical students. This course may, with the approval of the major department, be included in the seven courses constituting the major.

Students majoring in Group C who have not offered at least two units of Greek or Latin for admission are required to take a year's course in either classical civilization or elementary Greek or Latin. The course satisfying this requirement may, with the approval of the major department, be included in the seven courses constituting the major. The choice between "civilization" and language is subject to the approval of the major department. If a language course is chosen, this requirement should normally be satisfied during the freshman year.

An interdepartmental major includes eight or more courses chosen with regard to related content and purpose in fields which cross departmental boundaries. Two such programs are now available. These will be found fully outlined in the alphabetical list of "Departments and Courses."

7A. Group A.

The two courses may not be distributed between more than two fields of study. One of them *must* be a laboratory course.

Courses in the history of the sciences are not counted toward the fulfillment of this requirement.

8A. Group B.

The two courses may not be distributed between more than two fields of study.

9A. Foreign Language.

Requirements (a) and (b) may both be satisfied by a single course taken in the freshman year.

Students whose previous education has been largely in a language other than English are relieved of the requirement in foreign language upon the completion of English 11.

11A. Fine Arts.

The required half-course must be chosen from the following list: Fine Arts 11, 12b, 13b, 191a, 192a; Music 12, 13, 15; French 113; German 141; Greek 123a; Latin 123b.

B. Special Requirements for the Degree of Bachelor of Business Administration.

6B. *An "integrated program"* of ten courses.

This program will normally include certain of the courses specified in the following requirements.

7B. *Business Administration,* three courses.

a. Business Administration 10a, Elements of Distribution and 10b, Elements of Production. In the freshman year.

- b. Business Administration 18, Business Organization and Finance.
- c. Business Administration 220, Analysis of Business Problems.

8B. *Economics,* two courses.
- a. Economics 11, Principles of Economics.
- b. Economics 13, Money and Banking.

9B. *Government,* one course.
Government 15, Introduction to Government.

10B. *Business Law,* one course.
Business Administration 20.

11B. *Business Mathematics,* one course.
Business Administration 13. In the freshman year.

12B. *Accounting,* one course.
Business Administration 117, Principles of Accounting. In the freshman year.

13B. *Statistics,* one course.
Business Administration 16, Business Statistics.

14B. *English,* one and one-half courses.
- a. English 11a, Composition; Business Administration 14b, Business English. In the freshman year.
- b. Business Administration 17a, Public Speaking. A half-course.

NOTES ON SPECIAL REQUIREMENTS FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

6B. The Integrated Program.

This program is based on the choice of a "field of special interest" within the general area of business administration and must be submitted to the student's faculty adviser at the end of the sophomore year. Ordinarily a program will not be approved unless it includes, in addition to the required courses which are listed above, at least five courses in Business Administration or closely related subjects.

Typical areas of concentration for integrated programs are:

Accounting
- Intermediate Accounting
- Cost Accounting
- Auditing
- Advanced Accounting
- Industrial Management
- Federal Tax Accounting

Management
- Cost Accounting
- Analysis of Business Problems
- Industrial Relations
- Industrial Management
- Techniques of Managerial Control
- Industrial Psychology

Finance

- Business Organization and Finance
- Money and Banking
- Public Finance
- Business Cycles
- Analysis of Business Problems

Foreign Trade

- Principles of Marketing
- International Economics
- Economic Geography
- Industrial Psychology
- A foreign language

Marketing

- Elements of Distribution
- Salesmanship
- Advertising
- Marketing Research
- Sales Management
- Retailing Principles

Personnel Management

- Industrial Psychology
- Personnel Management
- Industrial Management
- Industrial Relations
- Labor Problems

8B.

Under special conditions Economics 13 may be replaced by certain other courses in economics.

Grades and Examinations

GRADES

At the end of each semester grades are reported for each student in each course in terms of A, excellent; B, good; C, average; D, poor; F, failure. The modifying symbols plus (+) and minus (–) are used with each of these letter grades with the exception of F, giving twelve levels of passing grades. A report of "incomplete" is permitted only when severe sickness or some other equally unavoidable circumstance prevents the completion of a course.

A record of "failure" in a course is final and not subject to change on the basis of any subsequent performance of the student who is involved. Credit for a course in which a failure has been reported may be secured only by repeating the course and earning a passing grade.

SCHOLARSHIP STANDARDS

Courses with the grades of D+, D or D– may not be counted toward a bachelor's degree beyond one-quarter of the total credit required; i.e., not more than five (5) such courses, or their equivalent in fractional courses, may be counted. In the administration of this regulation only grades received and credit earned in Clark University are considered. If grades are not available for some of the twenty courses required for the degree, the maximum credit which may be counted with grades of D+, D or D– is reduced to one-quarter of the total credit from all courses in which grades are available.

Classification of students. A student continues to be listed in the class with which he or she entered college until the end of the third, or junior, year. At this time only those students who have credit for at least fourteen courses with a minimum of eighteen semester grades of C– or better are promoted to the senior class.

Probation. Students with unsatisfactory grades are placed on probation. Failure of a student to remove himself from probation after two consecutive terms or three non-consecutive terms normally results in separation from college.

EXAMINATIONS

Final examinations are regularly given at the end of each semester in all college courses. Approximately two weeks are set aside for each examination period and an attempt is made to distribute the examinations for any individual student throughout this period. Absence from a final examination except for the most compelling reasons, usually results in a record of failure in the course.

Other examinations and tests may be given at any time during the semester at the convenience of the instructors.

COMPREHENSIVE EXAMINATIONS

"Comprehensive examinations" in a student's major subject are given in the spring of the senior year. These examinations test the student's grasp of the subject as a whole and do not duplicate the individual course examinations.. They are designed to determine whether the student has achieved a reasonable integration of the subject matter which has been presented in the separate courses.

"Comprehensive examinations" consist of at least four hours of written work plus a possible oral or laboratory examination. Students who do not pass the comprehensive examinations will be entitled to one re-examination during the following academic year, but no student will be given a third examination except by express permission of the College Board.

Comprehensive examinations are not required at present in the departments of Biology, Chemistry, or German.

Honors

The colleges award "annual honors" to outstanding students in each of the four classes, and grants the bachelor's degree "with honor" to students who maintain a praiseworthy level of scholarship throughout the college course. The degree is also granted with honors in a particular field of study to students who have qualified for this distinction under the rules of the colleges.

Additional recognition of outstanding scholarship was the function of the Clark Scholarship Society from its founding in 1914 until 1952. Scholarly attainment in the area of the "liberal studies" is now the major concern of the Clark chapter of the Society of Phi Beta Kappa.

ANNUAL HONORS

First honors and *second honors* are awarded at the end of each year to members of the freshman, sophomore, junior and senior classes who have, in the judgment of the College Board, distinguished themselves by their scholarship during the year.

COURSE HONORS

The bachelor's degree is awarded *with honor, with high honor,* and *with highest honor* to members of each graduating class whose records, in the judgment of the College Board, warrant this distinction.

DEPARTMENTAL HONORS

A program leading to the degree of Bachelor of Arts *with honors in a particular subject,* may be undertaken by a student at the beginning of the junior year if his cumulative scholarship average places him among the highest third of his class. Under this plan a student in cooperation with his honors' adviser organizes the work of his junior and senior years into a unified program which may include a maximum of two "honors courses." In these he works with a considerable measure of independence under the supervision of the adviser. In the senior year each candidate must pass satisfactorily a comprehensive examination given by his major department.

Application for honors work should be made, in writing, to the major department not later than the first day of May of the sophomore year.

Admission to candidacy for departmental honors does not relieve a student from any of the standing regulations of the college except as specifically stated above. If a student's candidacy for honors is terminated for any reason, the amount of credit, if any, to be allowed for special honors courses will be determined by the College Board in consultation with the major department.

An honors student must withdraw from his candidacy at the end of any semester in which he has not maintained a standing for the semester in the upper half of his class.

THE CLARK SCHOLARSHIP SOCIETY

The Clark Scholarship Society was organized in 1914 and was made temporarily inactive in June 1953. This change, effected by the executive committee of the society, was considered advisable as a result of the installation of a chapter of Phi Beta Kappa at Clark in 1953. The future status of the Clark Scholarship Society will be determined at a meeting of the society on June sixth, 1954.

PHI BETA KAPPA

The Society of Phi Beta Kappa, founded at the College of William and Mary in 1776, is dedicated to the recognition and encouragement of outstanding scholarly achievement in liberal studies—those studies concerned principally with a knowledge, understanding, or appreciation of the natural and social world in which we live. The Society establishes chapters in colleges and universities throughout the United States where the curricula are broadly cultural in scope and where high standards of scholarship are maintained.

In harmony with the underlying purposes of the Society, the Clark chapter, Lambda of Massachusetts, established in 1953, seeks to foster among undergraduates an appreciation of the contributions to culture and civilization which have been made by liberal studies.

Each year the Chapter elects to membership a limited number of juniors and seniors whose programs have been definitely liberal in character and who have achieved distinction in scholarship.

General College Regulations

ATTENDANCE

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

Attendance at a weekly college assembly is required, except in the case of part time and special students.

Regulations applying to absences from scheduled class meetings and laboratory exercises are based upon the conviction that such absences, regardless of their cause, involve a loss to the student and a drag upon the class. Students are, accordingly, expected to be consistently regular in attendance. Subject to this general provision, students are given a considerable degree of freedom in the control of their attendance. It is expected that such freedom will not be abused, and that it will contribute to the growth of each student's sense of responsibility.

Special regulations apply to attendance at the weekly assembly and physical training.

PHYSICAL TRAINING

Regular physical exercise is required of all students, with the exception of veterans, for the general promotion of their health and mental efficiency. Physical training is scheduled at times which avoid conflict with recitation hours. Students are usually excused from this requirement only on the recommendation of the medical director.

DINING HALL

Undergraduates who do not live in their own homes are required to board at the dining hall. This fact must be recognized and subscribed to by all who seek admission to either the Men's College or the Women's College.

Board at the Dining Hall is $190 per semester, payable as a whole in advance, or partly in advance with the balance in installments according to a fixed schedule.

DORMITORIES

Freshman men not living in their own homes or with near relatives are required to room in Estabrook Hall.

Women students who do not live in their own homes or with near relatives are required to room in one of the Women's Dormitories.

For further details see the announcements of the Men's College and the Women's College.

INFIRMARY

The Infirmary, located at 6 Downing Street, opposite the University Library, is open during the academic year. A nurse is in attendance and the University physicians are on call. Facilities are provided for the treatment of emergencies and for minor medical services to all students while they are on the campus; in addition there is provision for the temporary hospitalization of resident students in cases of more serious illness.

For the use of the Infirmary as outlined above and for annual physical examinations supplemented by other auxiliary health services a fee is collected with the tuition in the case of all undergraduates.

Fees and Expenses

The principal University charges which affect an undergraduate student are listed below. Small additional fees are collected in certain departments. For these the departmental announcements should be consulted.

The following regulation was adopted by the trustees on March 28, 1931:

"No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun."

Matriculation fee	$5.00

Paid by every student who is admitted to the University.

Induction fee	$10.00

Paid by all freshman men who enter the College in September and by all women students who enter the college for the first time in September.

Tuition $600.00 per year

For other than normal programs (four or five courses concurrently) the charge for tuition is at the rate of $60.00 per semester for each course.

One-half of the tuition is due at the beginning of each semester.

Activities fee $25.00 per year

Paid by all college students who are enrolled for programs of more than three courses and by special students who are enrolled for programs of more than three courses.

One-half of the activities fee is due at the beginning of each semester

Laboratory fees

For each undergraduate laboratory course in biology, geology, physics, psychology and Chemistry 11. $10.00 per semester

For each undergraduate course in chemistry, excepting Chemistry 11. $15.00 per semester

Laboratory fees are due at the beginning of each semester.

Breakage and supplies deposits

For each undergraduate course in chemistry, excepting Chemistry 15. $10.00

For Chemistry 15. $20.00

Deposits are due when registration for the courses is completed.

The Bursar returns any unused balance or collects for breakage in excess of the deposit at the end of the course.

Diploma fee, for a bachelor's degree $5.00

Due at the beginning of the semester in which a student expects to complete his study in residence for the degree.

Dormitory charges

Room rent, for each occupant From $180 to $250 per year

Room rent is payable either in advance or in installments, one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May.

Room deposit $25.00 for each occupant

Due before a room is occupied.

Dining Hall charges $190.00 per semester

Payable in advance, or in installments of $47.50 on the first day of October, November, December, January, February, March, April and May.

Paid by all undergraduates who do not live in their own homes.

Health Services and Infirmary fee

For students living at home	$4.00 per semester
For resident students	$7.50 per semester

Due at the beginning of each semester.

Fee for late payment of tuition $2.00

Paid by a student whose enrollment has lapsed because of failure to pay tuition, if re-enrollment is permitted.

Fee for late registration $1.00 per day, to a maximum of $5.00

Paid by students who fail to complete registration within the official Registration Period.

COLLEGE EXPENSES—SUMMARY

For the academic year 1954-55, a student who lives in a dormitory and boards at the dining hall will find that the necessary cost for the year (September to June) is about $1,250 in addition to personal expenses.

This cost is distributed as follows:

Annual fees	
Tuition	$600.00
Room rent	180.00 to 250.00
Board	380.00
Activities fee	25.00
Laboratory fees (estimated)	none to 60.00
Health services and infirmary fee	15.00
Books and supplies (estimated)	50.00
Total	$1,250 to $1,380

Non-recurring fees, collected in the first year only

Matriculation fee	$5.00
Induction period fee	10.00

Student Activities

Student life at Clark is, as would be expected at a small institution, friendly and informal. Fixed rules and regulations are few, the assumption being that students will conform to the recognized standards of morality, good order, and consideration for others. College activities are under the minimum degree of faculty oversight which is necessary to insure responsibility in business dealings and consideration of the welfare of the individual student and of the college community.

The Activities Fee. Athletics and several non-athletic activities are partially supported by an activities fee. This fee admits a student, without additional charge, to all athletic contests held on the college grounds, provides him with the college newspaper, and admits him to plays and concerts presented by the dramatic and musical clubs.

Activities. The programs in athletics are described in the special announcements of the Men's College and of the Women's College.

Opportunities for recreation are found in dramatic clubs and musical clubs, under expert direction; in editing and publishing the college newspaper (*The Scarlet*), the literary magazine (*The Helicon*), and the senior yearbook (*The Pasticcio*); also in such organizations as the Debating Club and International Relations Club.

Formal "proms", informal "Bohemes" and fraternity activities furnish further opportunities for social life. One of the University buildings houses the Student Union. For many students, the most prized opportunity for social contacts is in the offices and laboratories, where members of the faculty may be visited with ease and freedom.

Eligibility for Non-competitive Activities. All students may participate so long as their scholarship proves satisfactory. Details are published in the Students' Handbook.

Scholarships and Loans

Undergraduate scholarships are provided by the University from endowed funds and from other sources. A limited amount of part-time employment is provided by the Library, the Dining Hall and various University offices. Educational loans are available from funds which have been established for this purpose.

Many scholarships and other forms of pecuniary aid for college students are provided in Worcester and elsewhere throughout the United States by local sources. Any interested person should address inquiries to school officials, churches, fraternal organizations, chambers of commerce, etc.

SCHOLARSHIPS

Undergraduate scholarships are generally awarded on the basis of pecuniary need with due regard to character and ability. The scholarships vary in amount and are in some cases restricted to residents of a definite locality or to those studying particular subjects.

To be eligible for a scholarship, an entering freshman must have a scholastic record which places him in the upper third of his preparatory school class. A college student is eligible if he has secured a rank in the upper half of his class for the preceding semester.

Scholarships are awarded at the beginning of each semester. Ordinarily an award for the first semester is continued through the second semester if the holder maintains a position in the upper half of his class for the first semester.

Applications for undergraduate scholarships should be filed at an early date on forms which may be secured from the college office.

Aid given in the form of scholarships is not regarded as a loan. It is recognized, however, that those who receive such aid may wish to return the amount in later years. Any sums received from this source will be added to the Alumni Loan Fund of the College or to any designated scholarship fund.

The following scholarships are currently available to students in the undergraduate colleges with the restrictions noted.

The Ellis-Hubley Competitive Scholarships. These are competitive scholarships restricted to male residents of Worcester who have graduated from Worcester secondary schools. The stipends,

$600 annually to each beneficiary, are provided by money set aside from the income of funds bequeathed in memory of Gordon A. Hubley, Clark 1910, and of Theodore T. and Mary G. Ellis. One appointment is made each year to a member of the freshman class and the award is normally continued throughout the four years of the college course.

A candidate must receive the recommendation of the Principal or Head Master of the school in which his preparation for college is completed, before his application can be considered. Two full tuition scholarships are awarded annually to applicants who, in the judgment of the Committee on Scholarships, stand next below the successful applicant.

The Jonas G. Clark Scholarships. These scholarships have been established by the trustees to provide either full tuition or half tuition for undergraduate male and female students from outside of Worcester.

The Theodore T. and Mary G. Ellis Scholarships. These scholarships provide either full tuition or half tuition for male or female residents of Worcester who are students in "the collegiate department of Clark University."

The Sanford Memorial Scholarship. The Sanford Memorial Fund was established by alumni of the university in honor of Edmund C. Sanford, president of Clark College from 1909 to 1920. The Fund provides an annual scholarship amounting at present to approximately $200 for a male senior undergraduate.

The Livermore and Ambulance Scholarship. The endowment for this scholarship was provided by citizens of Worcester in honor of Charles Randall Livermore, the first Clark man to fall in battle in the first World War, and of his companions in the Clark Unit of Ambulance Drivers. Fifty dollars or more is awarded annually on the basis of academic success, character, and usefulness to the college. This scholarship is for male undergraduate students who are residents of Worcester County.

The Henry A. Willis Scholarships. Male students from Fitchburg, Massachusetts, and vicinity have first consideration in the award of these scholarships. In the absence of suitable candidates from this community grants may be made to others.

Gillette
SIGHT SAVERS

ROBERT EITNER
Quellen-Lexikon

The Helen Brewster Randolph Memorial Scholarship. A fund, established by the late Professor Charles B. Randolph in memory of his mother, provides about $250 annually for scholarships restricted to male college students, preferably those whose major is a foreign language.

The Gordon A. Hubley Scholarships. These scholarships are provided by a fund which was bequeathed by Alice B. Hubley in memory of her son, a graduate of the college in the class of 1910. The income is for the assistance of male undergraduates who are residents of Worcester.

The Alice Friend Newton Memorial Scholarship. This scholarship provides full tuition for a student in the Women's College whose major is psychology.

The William Richardson Scholarship. This scholarship was established by a bequest of Carlton E. Richardson of the college class of 1908 as a memorial to his father. The income of a fund of $7,500 is available "preferably for the education - - - - of boys of the Protestant faith."

The Jennie L. Richardson Scholarship. This scholarship was established by a bequest of Carlton E. Richardson of the college class of 1908 as a memorial to his mother. The income of a fund of $7,500 is available "preferably for the education - - - - of girls of the Protestant faith."

The Ernest R. Whitman Memorial Alumni Scholarship. The fund, established by the Alumni Association in honor of the Director of Physical Education for Men at Clark College from 1904 until his death in 1948, provides financial aid to men or women students possessing high qualities of leadership.

The B'nai Brith Scholarship. The Worcester Chapter, Order of B'nai Brith provides a scholarship which is primarily but not exclusively for the aid of Jewish students.

The Probus Club Scholarship. The Probus Club of Worcester offers an annual scholarship of one hundred dollars.

The Clark University Faculty Women's Club Scholarships. These scholarships are available to undergraduate students, either men or women, who rank high in intellectual and personal qualities.

The Clark University Alumnae Association Scholarships. Two scholarships are customarily offered by the Alumnae Association to students in the Women's College.

The National Council of Jewish Women Scholarship. The Worcester Section, National Council of Jewish Women, awards a $200 scholarship each year to a Jewish girl from Worcester or Worcester county who is attending Clark University.

The Soroptimists Club Scholarship. The Soroptimists Club of Worcester provides an annual scholarship for a student in the Women's College.

The Pleiades Scholarship. The women's senior honor society, Pleiades, raises, each year, a considerable sum of money which it applies to scholarships for students in the Women's College.

The Aaron Fuchs Memorial Scholarship Fund, given by Mrs. Celia Fuchs in memory of her husband and in honor of her sons Lawrence and Jerome Fox of the classes of 1944 and 1953 respectively, provides scholarship aid for non-residents of Worcester or of Worcester County. Awards under this fund are made by the Dean of the Colleges.

EDUCATIONAL LOANS

Loans are covered by endorsed notes payable at a fixed date and bear interest at the rate of 4 per cent per year. Interest received from loans is in all cases added to the fund from which the loan was made.

Loans from the funds described below are made to undergraduates by the Dean of the college in coöperation with the Alumni Committee on Loans.

THE ALUMNI LOAN FUND is a permanent revolving fund established by the trustees and the alumni. To this has been added a fund of about $500 contributed by L. Kelly Foster, C. B. L. Kelley, Isador Lubin, H. M. Smith, and others.

THE ESTABROOK LOAN FUND was created by the generosity of the late Arthur F. Estabrook of the Board of Trustees.

THE HASKELL TALAMO LOAN FUND has been established by relatives and friends of the late Doctor Haskell Talamo, A.B., Clark University, 1916.

THE LOUIS N. WILSON FUND, established by the first librarian of Clark University, is a loan fund for male students in the college.

The Men's College

Clark College

The Collegiate Department of Clark University, popularly known as Clark College, was established in 1902. Originally attendance was restricted to men and a three-year program led to the degree of Bachelor of Arts. In 1922 the normal period of residence for the bachelors degree was extended to four years, in 1941 a second program leading to the degree of Bachelor of Business Administration was introduced and in 1942 women were admitted to college classes.

The establishment of the financially independent Women's College made possible an enrichment of the undergraduate curriculum through an agreement under which men and women attend the same classes and the two colleges share the costs of administration and instruction.

FRESHMAN INDUCTION PERIOD

The freshman class of the Men's College assembles a few days before the beginning of the academic year in September for an "induction period." During this period the members of the class become acquainted and meet a selected group of upper class students as well as members of the college staff. Formal activities include tests which assist in placing a student in the proper class sections, individual and group conferences and registration for a program of studies.

It has been customary to spend the induction period at some well equipped camp where there are ample facilities for recreation.

A fee of $10 is charged for the induction period.

THE MEN'S DORMITORY — ESTABROOK HALL

Freshman men who do not live in their own homes are required to room in the freshman dormitory, Estabrook Hall.

Occasionally there may be accommodations in the dormitory which are not required for freshmen. In such cases these accommodations may be rented by upper class men.

The charges for accommodations in Estabrook Hall range from $180 to $250 per year.

Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May.

Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of $25. Students who indicate a desire for a room together will be accommodated whenever possible.

This deposit is returned, less a charge for lights and for any damages to the room or its furnishings, after the key to the room is surrendered to the Bursar.

THE MEN'S SENIOR HONOR SOCIETY, GRYPHON

The men's senior honor society, Gryphon, selects each year from the junior class a group of outstanding men who constitute the membership of the society for the following year. The society plays an important part in campus life and in maintaining the traditions of the college. Among its regular functions are the supervision of the annual "rope pull" between the freshman and the sophomore classes and the management of "Spring Spree."

ATHLETICS

Students in the Men's College have the opportunity to participate in intercollegiate soccer, baseball, tennis, basketball, fencing and crew. Competent coaches have immediate supervision over the athletic teams. In addition to the program in intercollegiate athletics there is an extensive program of intra-mural sports.

Eligibility for Competitive Activities. Participation in organized extracurricular competitive activities is denied only when a student's scholastic record indicates that continuance in an activity might be responsible for scholastic failure.

Any student carrying less than a full program of studies is ineligible unless his reduced program permits graduation at the end of the year in which that program is carried.

Students admitted with advanced standing from another college are ineligible during the first half-semester of residence at Clark College.

A special student is normally not entitled to participate in competitive activities of the college. The College Board may, however, permit such participation in the case of a special student who is enrolled for a program of five courses.

General supervision of the athletics program is vested in the Committee on Athletics, consisting of the Directors of Physical Education, the faculty Committee on Athletics, and the Athletic Council.

The Women's College

The Women's College of Clark University was established in the fall of 1942. Its financial basis is entirely distinct from that of the Men's College although it shares, through a cooperative arrangement, the services of the same administrative and teaching staffs.

Women attend the same classes as men and are subject to the same requirements for admission and for graduation with the exception of a required course in physical education.

General supervision of women students rests with the Associate Dean for Women, Miss M. Hazel Hughes.

The Advisory Board for the Women's College assists the administration in respect to general policy and social affairs.

Advisory Board for the Women's College

Mrs. Paul W. Spaulding, *Chairman*
Mrs. James B. Lowell, *Secretary*
Mrs. Robert S. Bowditch
Mrs. Frank L. Harrington
Mrs. J. Herbert Johnson
Mrs. Laurens C. Seelye

Mrs. John S. Tomajan, *Vice-Chairman*
Miss Alice F. Sheehan
Mrs. George L. Stout
Mrs. Charles T. Tatman
Mrs. Richard K. Wellington
Mrs. Warren A. Whitney

Mrs. Howard B. Jefferson, *honorary member*

Representing the Alumnae

Mrs. James J. Redican, *Chairman*
Miss Carol T. Amsden, *ex officio*

Mrs. Gerald R. Anderson
Miss Marion M. McCann

Representing the Faculty Women's Club

Mrs. Raymond E. Murphy, *Chairman*
Mrs. James A. Maxwell

Mrs. Eugene J. Kelley, *ex officio*
Mrs. Heinz Werner

The center for women's activities on the campus is the Women's Lounge, located on the main floor of Jonas G. Clark Hall. Attractively decorated and comfortably furnished, the lounge provides a meeting place for formal or informal groups and in general serves the comfort and convenience of women students.

The Women's Gymnasium with its connected dressing rooms and shower rooms occupies the western end of the ground floor of Jonas G. Clark Hall. Here are located also a second lounging room and a lunch room.

INDUCTION PERIOD

The freshman class of the Women's College and all women transfer students assemble at the college on Tuesday before the opening of the academic year in September for an "induction period." During this period the new students become acquainted and meet a selected group of upper class students as well as members of the college staff. Formal activities include certain tests which assist in placing students in the proper class sections, individual and group conferences and registration for a program of studies.

It has been customary to spend the induction period at some attractive and well-equipped girls camp where there are ample facilities for recreation.

A fee of $10 is charged for the induction period.

DORMITORIES

Undergraduate women who do not live at home are expected to live in one of the women's dormitories. Other arrangements are permitted only on written request from a parent or guardian and the consent of the Associate Dean for Women.

There are three dormitories, each housing from fifteen to twenty-six students. Each has its house mother and a dormitory committee which meets with the house mother to consider matters pertaining to dormitory living such as house meetings, the social life of the dormitory, the observance of dormitory regulations, etc. These groups also act as advisory boards for the students with whom they are associated.

A Dormitory Council composed of representatives from the three houses, the three house mothers and the Associate Dean for Women meets once a month to discuss matters of interest to the dormitory residents. This board often appoints student committees to make surveys in particular areas of student life.

The charges for accommodations in the Women's Dormitories range from $180 to $250 per year.

Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May.

Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of $25.

This deposit is returned, less a charge for lights and for any damages to the room or its furnishings.

Students who indicate a desire for a room together will be accommodated whenever possible.

THE WOMEN'S SENIOR HONOR SOCIETY, PLEIADES

The women's senior honor society, Pleiades, selects each year from the junior class a group of outstanding women who constitute the membership of the society for the following year. The society plays an important part in campus life and in maintaining the traditions of the college. In recent years it has provided funds for scholarship aid to one or more women students.

PHYSICAL EDUCATION AND ATHLETICS

There is a physical education program for women which is designed to improve posture and general health. Every student is given a physical examination at the beginning of each year.

Attendance at classes in physical education is required twice a week for the first two years. Participation in one group sport and in one individual sport is required during the junior year. Swimming and life saving courses are available through the entire year by arrangements with the Young Women's Christian Association. These courses are conducted by a member of the physical education staff of the University.

Several types of athletics are open to women. In the fall and spring hockey, crew, archery, tennis, and golf are conducted outdoors. Tournaments are held in the spring and fall and a cup is awarded to the winner of each event. During the winter months basketball is the principal organized athletic activity; volleyball and badminton are also offered. Women students use their own gymnasium for practice, but have the use of the University Gymnasium for games with outside organizations.

The Women's Athletic Association arranges for all sports activities; both within the college and with other colleges in the New England area.

The Division of Business Administration

The Division of Business Administration is an integral part of the undergraduate organization of Clark University and is responsible for the college program in business administration.

General supervision of the program rests with the Administrative Committee, representing the Faculty. Administrative responsibility rests with the Acting Director, Professor Eugene J. Kelley. The Advisory Committee composed of business executives assists in the formulation of general policies.

ADVISORY COMMITTEE TO THE DIVISION OF BUSINESS ADMINISTRATION

W. ROBERT BALLARD, JR.
Registered Representative, Kinsley & Adams
DONALD W. CAMPBELL,
Treasurer, State Mutual Life Assurance Company
F. HAROLD DANIELS,
President, Riley Stoker Corporation
C. LANE GOSS,
President, Worcester County Institution for Savings
ALBERT PALMER,
Vice-President, Crompton & Knowles Loom Works
HIRAM RASELY,
Executive Vice-President, Burdett College
JACOB REED,
Senior Partner, Reed & Company
WILLIAM SAWYER, III,
President, W. H. Sawyer Lumber Company

The program in Business Administration is given coöperatively by the Departments of Economics and Sociology, English, Geography, History and International Relations, Mathematics and Psychology.

THE BUSINESS ADMINISTRATION PROGRAM

The program leading to the degree of Bachelor of Business Administration is designed to prepare young men and women for careers in business.

Students who enroll in this program are members of either the Men's College or of the Women's College and are subject to the general college regulations as well as to the special requirements for the degree of Bachelor of Business Administration. They may choose their electives in other fields such as social studies, language, fine arts and science.

The business program is designed to provide an opportunity for the student to become acquainted with the basic characteristics of modern industry and commerce, to acquire an understanding of the general principles of business and to receive training in the techniques common to all successful business enterprises. It should assist the student in adapting himself to general business requirements and in relating his specific job to the entirety of business and industrial enterprise as well as in perfecting his skill in particular techniques.

The program consists of carefully selected courses in arts and sciences together with specialized courses of particular interest to students of business. Among the former are basic courses in English composition, mathematics, economics, psychology, and government. Among the latter are courses in accounting, finance, managerial techniques, statistical methods, merchandising, and business law. Training in the analysis of administrative problems is emphasized throughout the program.

A uniform program including English, elements of production and distribution, accounting and business mathematics is normally required of all business administration students in the freshman year.

The following courses are required of all candidates for the degree of Bachelor of Business Administration and must be included in the programs covering the sophomore, junior and senior years:

B. A. 16	Business Statistics
B. A. 17a	Public Speaking
B. A. 18	Business Organization and Finance
B. A. 20	Business Law
B. A. 220	Analysis of Business Problems
Economics 11	Principles of Economics
Economics 13	Money and Banking*
Government 15	Introduction to Government

At the end of the sophomore year, each candidate for the degree of Bachelor of Business Administration must submit to his faculty adviser an integrated program of studies covering the junior and senior years. This program should indicate the student's areas of special interest and the specific courses he intends to elect. Ordinarily no program will be approved that does not include in addition to the required courses named above, at least five courses in Business Administration or closely related subjects.

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*Under special conditions Economics 13 may be replaced by certain other courses in economics.

Comprehensive examinations. A comprehensive examination is required of every candidate for the degree of Bachelor of Business Administration in the spring of the senior year. The successful completion of this examination demands an ability to integrate the principles covered by specialized courses in business administration and economics and a competence in at least one functional field of business administration. Candidates for the bachelor's degree are required to register for Business Administration 220 in the senior year. This course is designed in part to assist students in preparing themselves for the comprehensive examination.

In addition to the program leading to the degree of Bachelor of Business Administration, the colleges offer a less intensive program in Business Administration leading to the degree of Bachelor of Arts. Students taking this program choose Economics and Sociology as their major department. They must meet all the requirements for the degree of Bachelor of Arts including those in English, fine arts, foreign languages and sciences. First year students should take the normal college program for freshmen and should elect Business Administration 10 for the Group B requirement. The program for the second year should include Business Administration 117 and Economics 11. In the third and fourth years students should elect at least two basic courses in economics, such as Economics 13, 21, 22, 205, or 207, and at least four courses in business administration. The following are recommended: Business Administration 16, 18, 127, 20 and 220.

COURSES IN BUSINESS ADMINISTRATION

Courses in Business Administration are listed with descriptions under "Business Administration" in the alphabetical list of "Departments and Courses."

The following courses may not be counted for credit toward the degree of Bachelor of Arts: Business Administration 13, 14b, 17, 109, 125, 128, 129a, 181a, 182b, 23, 227, 237.

Departments and Courses

Interdepartmental Majors
General Education
Biology
Business Administration
Chemistry
Classics
Economics and Sociology
Education
English
Fine Arts and Music
French
Geography
Geology
German
History and International Relations
Mathematics
Orientation and Hygiene
Philosophy
Physics
Psychology
Russian
Spanish

Departments and Courses

Departments, important subdivisions of departments and certain interdepartmental groups of courses are listed in the following pages. In general, each entry includes a departmental announcement followed by a list of courses which are offered by the department.

Interdepartmental majors and *General Education* are listed first.

Departments and their subdivisions follow the first two entries in alphabetical order.

Departmental announcements contain important general information, as well as regulations concerning graduate work in the department and statements of the requirements for undergraduate majors.

Courses are, in general, arranged in sequence under each heading so as to progress from the more elementary to the more advanced. Each course is described as it has been given during the current academic year unless an accompanying note states otherwise. Notice is given in all cases where a department plans to alter the content or to omit a course. If a course is not currently given but will be offered at a later date this fact is stated.

The unit of instruction for undergraduates is a "course." A course normally meets for classroom or laboratory exercises three or four times weekly throughout the regular academic year (September to June) and constitutes one-fifth of the normal program for an undergraduate.

Each unit of undergraduate instruction as listed below yields credit for one half-course in each semester unless its value as a fractional course or a multiple course is indicated.

Both semesters of an "indivisible course" must be satisfactorily completed before any credit is given for the course.

Advanced courses, not primarily for undergraduates, are announced with a statement of the number of weekly meetings.

Courses primarily for graduate students yield full half-course credit in each semester without regard to the number of class meetings.

With the consent of the instructor, a course may be entered at the beginning of either semester.

The fields in which instruction is offered in the colleges are classified for administrative purposes in four "groups" as follows:

GROUP A (Science and Mathematics). Biology, botany, chemistry, experimental psychology, geology, mathematics, physics, and physiology.

GROUP B (Social Sciences). Economics, education, geography, government, history, international relations, philosophy, psychology, and sociology.

GROUP C (Language and Literature). Greek, Latin, English, French, German, Russian, Spanish, and an interdepartmental course in language and literature.

GROUP D (Fine Arts). Art and Music.

Courses are classified under three headings as follows:

1. PRIMARILY FOR UNDERGRADUATES, designated by numbers beginning with the figure "1."

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS, designated by numbers beginning with the figure "2."

3. PRIMARILY FOR GRADUATE STUDENTS, designated by numbers beginning with the figure "3."

Interdepartmental Majors

To provide undergraduate "majors" in certain fields which are intrinsically worthwhile culturally or professionally but which cross departmental boundaries, the Faculty has authorized a group of "interdepartmental majors". These permit a greater breadth of choice than the strictly departmental programs but preserve the unity of content and purpose which is inherent in the concept of a major.

An interdepartmental major includes eight or more required courses.

At present two programs are offered under this plan. These are listed below.

I. INTERNATIONAL RELATIONS

Freshman and Sophomore Years

General Educ. 14	Europe and the United States since 1500
Economics 11	Principles of Economics
Geography 10	Principles of Geography

Junior and Senior Years

Government 24	International Relations
Government 240	Seminar in International Relations
Government 241	International Law and Organization
Geography 201	Political Geography

Two courses in Economics which will normally include:

Economics 207	International Economics

Two half-courses to be selected in consultation with the instructor in charge.

Instructor in charge: Associate Professor Hayden.

II. AMERICAN CIVILIZATION

Freshman Year

General Educ. 14	Europe and the United States since 1500

Sophomore Year

History 131	Introduction to United States History

At least two of the following courses:

Government 15	Introduction to Government
Economics 11	Principles of Economics
Sociology 11	Principles of Sociology

Junior and Senior Years

History 230	Social and Intellectual History of the United States
English 111	A Survey of American Literature

Two and one-half courses chosen from the following list:

Sociology 12a	Cultural Anthropology
Philosophy 12	History of Philosophy
History 232	United States Constitutional History and Law
History 234a	American Diplomatic History
History 235b	The United States in the Twentieth Century
Government 251a	American Political Parties
Sociology 12b	Race and Nationality
Sociology 25	Social Institutions
Economics 231	Economic History of the United States

Alternative courses may be chosen with the approval of the instructor in charge of the program.

Instructor in charge: Associate Professor Campbell.

General Education

Courses in General Education are distinguished from courses which are listed in departmental announcements by viewpoint and tone rather than by content. They aim to develop an understanding of the basic unity of knowledge and thought; to offer the student an opportunity to obtain a core of information and of ideas which will be possessed in common with many of his contemporaries and to stimulate intelligent and critical interest in fields of culture where he has no expectation of attaining professional competence. General Education courses are thus a valuable supplement to pre-professional or pre-vocational education. They may be advantageously used to fulfil the distribution requirements in the natural sciences, the social sciences and language and literature. They are outside the sequence of courses in a student's "major" or "field of special interest" and are essentially without specific prerequisites.

The following courses are classified for administrative purposes in Group A or Group B or Group C. They may be used to meet college requirements wherever a particular Group is specified in the "Freshman Programs" or in the "Requirements for a Bachelor's Degree".

The offerings in General Education are under the supervision of a committee which reports to the Academic Council. The present committee consists of Mr. Bumer, chairman, Mr. Cohen, Mr. Nunnemacher and Mr. Reid.

Courses in General Education

General Education 10. An Introduction to Physical Science. This course covers fundamental and outstanding developments of both classical and modern physics and includes selected topics from chemistry and astronomy. The methods and procedures of science as exemplified by physics are emphasized, and considerable attention is given to historical background and the effect of science on man's thought and life. The laboratory periods are devoted to demonstration, discussion, criticism, and evaluation and to a series of selected experiments which are carried out by the students. No attempt is made to develop special competence in laboratory techniques.

Open to freshmen. Primarily for non-science majors. Classified as a Group A course.

Through the year. M. W. F., 10; Tu., 2. MR. ROOPE

General Education 14. Europe and the United States Since 1500. A survey of political, economic and intellectual trends since the Renaissance, designed to promote an understanding of the origin and development of the problems of the modern world.

The first semester treats the sixteenth, seventeenth and eighteenth centuries; the second semester, the nineteenth and twentieth centuries.

A class fee of one dollar for each member of the class is charged for supplies and duplicate library copies of books.

Open to freshmen. Classified as a Group B course.

Through the year. Tu. Th., 9; M., 1.

MR. JORDAN, MR. LEE and MR. CAMPBELL
Assisted by MR. DUFFY

General Education 17. Great English and American Writers. Unlike English 15, which tries to present a comprehensive view of the whole field of English literature from *Beowulf* to the present, this course focuses the attention on six or seven major writers in each semester. The emphasis is placed, not on tracing literary movements or on studying literary problems *per se,* but on showing what these great figures have to say that is of interest or importance to the general reader today. The course seeks to determine the attitude toward life of each author, to see what gave rise to that attitude, and to evaluate it and compare it with the views of other writers treated in the course. Chronology as well as other purely factual material is kept to a minimum.

Meets requirement for a third semester of English in addition to English 11. Open to sophomores, juniors and seniors. *May not be counted for credit with English 15.*

Divisible course. Either semester may be elected separately. Classified as a Group C course.

Through the year. W. F., 11-12:15. MR. CARTER, first semester
MR. LETENDRE, second semester

General Education 18. Literature and the Nature of Man. This course is designed to serve the general student by providing him with an opportunity to investigate ideas held by outstanding literary artists of the Western World concerning the nature of man and his relation to the universe. The works are also to be studied as representative of the cultures of which they are products.

The course is planned not only to introduce the student to a body of knowledge and experience held in common by educated men and women in our society, but also to help him to clarify his thinking concerning certain basic problems and to develop attitudes that are both humane and creative.

The subject matter undertaken includes Sophocles' *Antigone,* the *Book of Job,* the *Inferno* from Dante's *Divine Comedy,* Shakespeare's *Hamlet,* Milton's *Paradise Lost,* Molière's *Misanthrope,* Goethe's *Faust, Part I,* and selected poems of T. S. Eliot. All non-English works are read in translation.

Meets the requirement for a third semester of English in addition to English 11, but not the requirement in Fine Arts. Classified as a Group C course.

Open to sophomores, juniors, and seniors with the consent of the instructors.

Divisible course. Successful completion of first semester is normally required for admission to second semester.

Through the year. M. W. F., 12. MR. ANDERSON, first semester
Omitted 1953-54. MR. KING, second semester

General Education 110. Fundamental Concepts of Elementary Mathematics. The subject matter of this course is exposed in terms comprehensible to students with no formal training in mathematics at the college level. It is hoped that the course will show the student how the abstract and general ideas of mathematics have implications for other fields of learning.

Open to juniors and seniors only. Classified as a Group A course.

Through the year. MR. BUMER

Omitted 1953-54.

General Education 143. The Theater in Western Civilization. An analysis of the theater as an art form as it is developed by specific cultural periods of the civilization of the West. Attention is paid to the contribution of other art forms to its growth and to the effect of intellectual and sociological trends on its content. The course has two aims: to give the student of the drama an insight into the technical aspects of theater and the problems facing the producer and designer, and to give the student of the theater an insight into the cultural background which has produced the drama.

First semester: Greek Theater; Mediaeval and Elizabethan Theater.

Second semester: The Age of the Baroque; Nineteenth Century and Modern Theater.

Open to upperclassmen with the consent of the instructor.

This course does not meet the requirement for a third semester of English, nor the requirement in Fine Arts. Classified as a Group C course.

Divisible course. Either semester may be elected separately.

Through the year. Tu. Th., 11-12:15. MR. EDWARDS

American Civilization

AN INTERDEPARTMENTAL MAJOR

An "interdepartmental major" in the field of American Civilization is offered to candidates for the degree of Bachelor of Arts. The program required for the completion of this major is fully outlined under the earlier heading *Interdepartmental Majors.*

Department of Biology

PROFESSOR POTTER, ASSOCIATE PROFESSOR NUNNEMACHER
ASSISTANT PROFESSOR BLAIR

The biological laboratories are well equipped for the courses offered and contain special equipment for advanced investigations. Funds are available annually for the purchase and building of apparatus which may be required. The university library contains complete files of the more important periodicals and reference works. The department maintains an herbarium of over 50,000 sheets. Certain assistantships, fellowships and scholarships are available from time to time.

UNDERGRADUATE WORK

Biology 11 presents a comprehensive view which is prerequisite to all other courses in the department, except Biology 19a.

An undergraduate majoring in biology must complete Biology 11 and three advanced courses in biology, Chemistry 11, Physics 11, Mathematics 11, and at least one additional course in chemistry, physics or geology. Mathematics 11 does not count towards the fulfillment of the major requirements.

A candidate for honors in biology must take Biology 11, 12, 14 and 240.

THE PRE-MEDICAL PROGRAM

Clark University is justly proud of its pre-medical training program. Not only do our better students have little difficulty in entering the best medical schools, but they usually rank in the upper half of their medical school classes and become respected and outstanding physicians.

The student entering upon the pre-medical program must be prepared to compete with other college students of above-average ability; he must be of good health and capable of sustained hard work; he must like and get along well with all kinds of people and he must have a real desire to help the sick and advance the science of medicine. The pre-medical student must be prepared to undertake a program of intensive study which usually takes eight years before the medical degree can be obtained. During this time the large amount of class and laboratory work reduces considerably the opportunities for earning money through outside work.

While the requirements for the Bachelor of Arts degree assure each graduate familiarity with several fields of learning, the pre-medical student should take as many non-science courses as possible to round out his general education, because medical school programs leave no time for courses outside of their technical field. Courses in psychology and human relations will be of particular benefit.

The field of medicine is open equally to men and women.

The following programs are recommended for pre-medical students with a major in biology. Program A places the emphasis on biology; Program B places the emphasis on chemistry.

PROGRAM A

First year
- English
- Foreign Language
- Mathematics
- General Biology
- Group B (one course)

Second year
- Biology 12
- General Chemistry
- Foreign Language
- Group B (one course)
- ½ course in English and ½ course in Fine Arts

Third year
- Biology (Two advanced courses)
- Chemistry 13
- Physics 11
- Two electives

Fourth year
- Biology 240
- Chemistry 15
- Three electives

PROGRAM B

First year
- English
- Foreign Language
- Mathematics
- General Chemistry
- Group B (one course)

Second year
- Chemistry 13
- Chemistry 14a and 14b
- General Biology
- Foreign Language
- Mathematics 12

Third year
- Chemistry 15a and 15b
- Biology 12
- Physics 11
- Group B (one course)
- One elective

Fourth year
- Chemistry 19
- Biology (two advanced courses)
- ½ course in English and ½ course in Fine Arts
- One elective

GRADUATE WORK

Students whose records are approved by the department may be admitted by the Graduate Board for work leading to the degree of Master of Arts.

Courses in Biology

During the academic year 1953-54 the following courses were given: 11, 12, 13, 14, 18, 220, 221, 240, 241, 242, 260, 261, 300, 320, 340, 350 and 360.

1. PRIMARILY FOR UNDERGRADUATES

11. *General Biology.* An introduction to the fundamental principles and problems of biology.

Divisible course upon approval by the department.

Open to freshmen.

Through the year. M. W. F., 9; M., 2.

MR. POTTER AND MR. NUNNEMACHER

12. *Comparative Anatomy.* A study of the morphology of the vertebrates from a comparative standpoint which traces the evolution of animals from fish to mammals.

Lectures and laboratory work.

Through the year. Tu. Th., 8; Tu. F., 2. MR. NUNNEMACHER

13. *Seminar in General Biology.* Credit is not given for this course. All students in the department are invited to attend and to participate. STAFF OF THE DEPARTMENT

14. *Botany.* First semester, morphology and taxonomy of the lower plants. Special emphasis is given to the algae and fungi.

Second semester, systematic botany of the higher plants with special emphasis on our local flora. A collection of one hundred plants is required, also a spring program of laboratory work in the field of at least three days' duration.

Either semester of the course may be elected separately.

Prerequisite: Biology 11, first semester.

Through the year. M. W., 11; F., 10; Tu., 2 MR. POTTER

Given in the first semester only 1953-54.

15. *Invertebrate Zoology.*

Omitted 1953-54.

18a. *Genetics.* An introduction to the principles of genetics.

Half course. First semester. W. F., 11; M., 1. MR. POTTER

19a. *Human Anatomy and Physiology.* An introductory semester course. Does not require Biology 11 as a prerequisite but requires Biology 11 to be counted towards the Group A requirement.

May not be counted toward the fulfillment of the requirement for a major in Biology. Three lectures per week.
Omitted 1953-54. MR. NUNNEMACHER

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

201. *Advanced Systematic Botany.* Through the year. Three laboratory periods and one lecture per week. Either semester may be taken separately. MR. POTTER
Omitted 1953-54.

202. *Economic Botany.* MR. POTTER
Omitted 1953-54.

204b. *Bacteriology.* An introduction to the study of bacteriology.
Half course. Second semester. M. W. F., 11. MR. POTTER
Omitted 1953-54.

205. *Advanced Genetics.*
Three lectures per week.
Half course. Second semester. MR. POTTER
Omitted 1953-54.

219. *Entomology.* Fundamentals of insect life.
Three lectures and one laboratory period per week.
Half course. Second semester. MR. POTTER
Omitted 1953-54.

220a. *Histology.* A comprehensive course dealing with tissue structure. Emphasis is placed on the study of mammalian tissues. Two lectures and two laboratory periods per week.
Half course. First semester. Tu. Th., 11. MR. NUNNEMACHER

221b. *Embryology.* A consideration of the fundamentals of embryology. Two lectures and two laboratory periods per week.
Half course. Second semester. Tu. Th., 11. MR. NUNNEMACHER

223b. *Parasitology.* An introduction to the parasitic mode of life of the protozoa, helminthes, and arthropoda and their relation to mankind. MR. POTTER AND MR. NUNNEMACHER
Half course. Second semester.
Omitted 1953-54.

224b. *Neuro-anatomy.*
Three lectures per week. MR. NUNNEMACHER
Omitted 1953-54.

240. *General Physiology.* Open to students who satisfy the instructor as to their preparation. The principal types of functioning characteristic of living organisms are considered in the light of their physio-chemical determinants.

Through the year. Tu. Th., 10; and two laboratory periods per week. Mr. Blair

241b. *Endocrinology.* A study of the ductless glands and their relation to behavior.

Half course. Second semester. Mr. Blair

242. *Advanced Physiology.* Given through the year. Three lectures per week first semester and three laboratory periods per week second semester.

Through the year. Tu. Th., 9; laboratory hours to be arranged. Mr. Blair

244. *Biochemistry.* Mr. Blair

First semester. Three lectures per week.

Omitted 1953-54.

260. *Special Problems.* Advanced semi-independent study of an approved topic under the direction of a member of the staff.

Hours and credit to be arranged. Staff of the Department

261. *Microtechnique.*

Through the year. Mr. Nunnemacher and Mr. Potter

Given in the second semester only 1953-54, by Mr. Nunnemacher.

3. PRIMARILY FOR GRADUATE STUDENTS

300. *Readings and Research in Botany.*

Credit to be arranged. Mr. Potter

301b. *Plant Morphology.*

Credit to be arranged. Mr. Potter

320. *Readings and Research in Zoology.*

Credit to be arranged. Mr. Nunnemacher

340. *Readings and Research in Physiology.*

Credit to be arranged. Mr. Blair

342b. *Enzymology.*

Second semester. Two lecture and two laboratory periods per week. Mr. Blair

Omitted 1953-54.

350. *Advanced Studies in Biology. Seminar.*

Tues. 4-6. Staff of the Department

360. *Thesis.*

Credit to be arranged. Staff of the Department

Business Administration

Associate Professer Hargest, Associate Professor Melder,
Assistant Professor Kelley, Assistant Professor Nordstrom,
Visiting Lecturer Lukens, Teaching Fellow Osborne

With the assistance of the staffs of the cooperating departments: Economics and Sociology, English, Geography, History, Mathematics and Psychology.

A description of the program in Business Administration and a statement of the requirements for the degree of Bachelor of Business Administration will be found under the general heading "The Undergraduate Colleges" and the special heading "The Division of Business Administration."

The courses in Business Administration and related subjects which are included in the program for the degree of Bachelor of Business Administration are listed alphabetically in the following pages under the headings: Accounting, Economics, English and Public Speaking, Geography, History and Government, Management, Marketing, Mathematics, Psychology, and Statistics.

Courses in Business Administration

Courses in *Business Administration* are classified as follows:

Course number	Classification
10a	Marketing
10b	Management
13	Math. and statistics
14	English and pub. speaking
16	Math. and statistics
17	English and pub. speaking
18	Management
109	Marketing
112	Management
117	Accounting
124	Marketing
125	"
127	Accounting
128	"
129	"
181	Management
182	"
183	"
20	"
23	Marketing
27	"
203	"
227	Accounting
237	"
220	Management

In 1953-54 the following courses were given: 10, 13, 14, 16, 17, 18, 109, 112, 117, 127, 128, 181, 182, 183, 20, 23, 220, 227.

Students should note that the following courses may not be counted for credit toward the degree of Bachelor of Arts: Business Administration 13, 14b, 17, 109, 125, 128, 129a, 181a, 182b, 23, 227, 237.

ACCOUNTING

Business Administration 117. Principles of Accounting. The organization and use of financial records, with emphasis on their interpretation as well as on the techniques of procedure.

Indivisible course.

Required of freshmen in the Business Administration program.

Through the year. Tu. Th., 8; Tu. Th., 2-4. Mr. Hargest
Assisted by Mr. Osborne

Business Administration 127. Intermediate Accounting. A study of generally accepted accounting principles and procedures and their application to asset, liability and proprietorship accounts. The analysis of financial statements, including statements from incomplete data and the statement of application of funds. Emphasis is placed upon problem analysis and solution.

This course may be entered at beginning of the second semester, but credit will not be given until both semesters have been completed.

Indivisible course.

Through the year. Tu. Th., 10; W., 2. Mr. Hargest

Business Administration 128a. Elementary Cost Accounting. A study of the basic principles of cost accounting and their application to the job order cost system. Especial consideration is given to the accounting for material, labor and manufacturing expenses and to the preparation of financial statements.

Half course. First semester. Tu. Th., 11-12:15. Mr. Hargest

Business Administration 128b. Advanced Cost Accounting. A study of the principles and procedures used in process, estimated and standard cost accounting systems. Consideration is given to the accounting for by-products, joint products and methods of accounting for work in process inventories. The preparation of financial statements and cost reports for managerial control is emphasized.

Half course. Second semester. Tu. Th., 11-12:15. Mr. Hargest

Business Administration 129a. Federal Tax Accounting. A basic course in the fundamentals of federal income and social security taxes with major emphasis upon the preparation of returns.
Half course. First semester. Mr. Hargest
Omitted 1953-54.

Business Administration 227a. Auditing. After an analysis of the purpose and scope of the several classes of audits, the course deals with (1) professional ethics (2) auditing standards (3) internal control systems (4) audit procedures applicable to asset, liability and proprietorship accounts, and (5) the use of worksheets and the preparation of statements and reports.
Half course. First semester. Tu. Th., 9; Tu., 2. Mr. Hargest
Offered in alternate years. To be omitted 1954-55.

Business Administration 237a. Branches, Consolidations, Mergers and Bankruptcy Accounting. The principles and problems encountered in home office and branch accounting; parent and subsidiary accounting; major-minor and reciprocal holding company relationships; financial and operating statements of consolidated companies; accounting for "sick business"; equity receiverships, statement of affairs; bankruptcy; the statement of realization and liquidation.
Half course. First semester. Mr. Hargest
Omitted 1953-54.

Business Administration 237b. Governmental, Institutional and Estate Accounting. The principles and problems encountered in accounting for the budget, revenues, appropriations and expenditures for the several funds used by governmental units and institutions. Accounts of the executor, administrator or trustee of an estate, and the related charge and discharge statements.
Half course. Second semester. Mr. Hargest
Omitted 1953-54.

ECONOMICS

See also announcement of the Department of Economics and Sociology.

Economics 11. Principles of Economics. Required for the degree of Bachelor of Business Administration.

Economics 13. Money and Banking. Required for the degree of Bachelor of Business Administration.

Economics 15a. Public Finance.

Economics 19b. Economics of National Security.

Economics 21. Business Cycles.

Economics 22. Labor Economics and Labor Problems.

Economics 25b. Problems in Public Finance.

Economics 26. Government and Industry.

Economics 205a. Intermediate Economic Theory.

Economics 206b. Economics of Industry.

Economics 207. International Economics.

ENGLISH AND PUBLIC SPEAKING

English 11. Composition and Literature. The first semester is required of freshmen in the Business Administration program.

Business Administration 14b. Business English. A course in English composition designed to train the student in the preparation of reports, letters, etc., used in business.

Required of freshmen in the Business Administration program.
Half course. Second semester. W. F., 11-12:15.
Mr. Illingworth

Business Administration 17a. Public Speaking. A course in the fundamentals of public speaking including the more common speech situations such as speech of introduction, address of welcome, expository and impromptu speeches; problems in human relations; voice tests, vocabulary drill.

Required for the degree of Bachelor of Business Administration.
Half course. First semester. M. W. F., 9. Mr. Illingworth

Business Administration 17b. Public Speaking. Parliamentary procedure, open forum, panel discussion, committee meetings, reports, extemporaneous speaking.

Prerequisite: Business Administration 17a.
Half course. Second semester. M. W. F., 9. Mr. Illingworth

GEOGRAPHY

See also announcement of the Department of Geography

Geography 10. Principles of Geography.

Geography 16. Economic Geography.

HISTORY AND GOVERNMENT

See also announcement of the Department of History and International Relations

Government 15. Introduction to Government.
Required for the degree of Bachelor of Business Administration.

General Education 14. Europe and the United States Since 1500.

MANAGEMENT

Business Administration 10b. Elements of Production. A survey of the production function in business, giving special emphasis to an exposition and theoretical evaluation of current practices in the fields of plant location, building and equipment selection, product and process development, maintenance, and methods of manufacture.

Required of freshmen in the Business Administration program.
Half course. Second semester. M. W. F., 9. MR. NORDSTROM

Business Administration 18. Business Organization and Finance. A course in the financial structure of modern industry with emphasis on the nature of the business corporation, its financial practices, types of securities, capital structure, financial reorganization, and the problems of internal financial control.

Required for the degree of Bachelor of Business Administration.
Through the year. Tu. Th., 11-12:15. MR. LUKENS

Business Administration 112. Introduction to Personnel Management. A survey of the policies, practices and theory underlying the management of manpower in Industry. Representative topics studied are employee selection, training, promotion and transfer, wage payment and morale. Research into actual industrial situations is included in the second half.

Through the year. W. F., 11-12:15. MR. NORDSTROM

Business Administration 181a. Industrial Management. A study of the techniques of the executive control of manufacturing operations with special reference to such fields as specialization of labor, simplification and diversification of products, expansion, control of factors of production, and internal organization. The case method is used to a large degree.

Half course. First semester. M. W. F., 10. MR. NORDSTROM

Business Administration 182b. Techniques of Managerial Control. This course emphasizes those techniques by which information is communicated most efficiently in a business organization to achieve both high efficiency and high morale. This includes a survey of the contribution of office management to the efficient storing and communication of information.

Half course. Second semester. M. W. F., 10. MR. NORDSTROM

Business Administration 183. Industrial Relations. The subject matter of the course is management-employee relationships with special reference to union and management bargaining. Opportunity for development of perspective and judgment as regards problems of management in shop industrial situations and under the law of labor relations is provided. Discussion and case methods are employed.

Through the year. Tu. Th., 11-12:15. MR. MELDER

Business Administration 20. Business Law. A study of the legal basis of business and the principles of statutory and common law as they affect business relationships; covering such subjects as contracts, property, sales, negotiable instruments and agency.

Indivisible course.

Required for the degree of Bachelor of Business Administration.

Through the year. M. W. F., 8. MR. BREEN

Business Administration 220. Analysis of Business Problems. A course in the analysis of specific problems of administration and policy making. The course is designed to integrate the principles covered in more specialized courses in Business Administration in order that the student may acquire an appreciation of the broad business picture, while developing his ability to view business and economic problems from an over-all standpoint.

Required of seniors in the Business Administration program.

Indivisible course.

Through the year. M. W., 2-3:15. MR. KELLEY

MARKETING

Business Administration 10a. Elements of Distribution. An introduction to the study of business activities involved in the flow of goods and services from producer to consumer. Required of freshmen in the business administration program.

Half course. First semester. M. W. F., 9. MR. KELLEY

Business Administration 109b. Sales Management. A course designed to give the student experience in analyzing sales problems, arriving at practical solutions, and defending these solutions. Sales administration, operation, control, promotion, and policies are studied during the course.

Half course. Second semester. M. W. F., 9. MR. KELLEY

Business Administration 124. Principles of Marketing. An analysis of the institutions and processes involved in the distribution of goods and services, including a study of consumer motivation, retailing and wholesaling institutions, and marketing policies and practices. Attention will be given to study and discussion of actual marketing problems.

Half course. MR. KELLEY

Omitted 1953-54.

Business Administration 125b. Retailing Principles. A survey of the major phases of retailing including discussions of the retailer in our economy, the store and its organization, aspects of buying and selling, operating activities and personnel, and retail control.

Half course. Second semester. MR. KELLEY
Omitted 1953-54.

Business Administration 23a. Advertising. An introduction to the principles and practices of advertising. The emphasis is on the use of advertising as a tool of marketing. Topics studied include the economic functions of advertising, advertising research, media selection, advertising organizations, and testing.

Half course. First semester. W. F., 11-12:15. MR. KELLEY
Offered in alternate years. To be omitted in 1954-1955.

Business Administration 23b. Salesmanship. A study of the basic principles and problems of modern salesmanship; functions of sellers, basic knowledge needed in selling, and specialized sales problems.

Half course. Second semester. W. F., 11-12:15. MR. KELLEY
Offered in alternate years. To be omitted in 1954-1955.

Business Administration 27a. International Trade and Finance. A study of the nature, theoretical basis, methods of financing and government control of the international movement of goods.

Half course. First semester.
Omitted 1953-54.

Business Administration 203b. Marketing Research. A study of the types of problems faced by business executives in marketing and the ways in which the methods of scientific business research can be used for their solution.

Half course. Second semester. MR. KELLEY
Omitted 1953-54.

MATHEMATICS AND STATISTICS

Business Administration 13. Business Mathematics. An elementary course designed to give the necessary foundation for an understanding of the basic processes involved in business transactions.

Required of freshmen in the Business Administration program.
Through the year. Tu. Th., 10; M., 2. MR. STUBBE

Business Administration 16. Business Statistics. This course is designed to give the student a knowledge of the basic statistical techniques and procedures as they are applied to business and economic data. Lectures and laboratory exercises.

Indivisible Course. Required for the degree of Bachelor of Business Administration.

Through the year. Tu. Th., 9 and Tu., 2.

MR. NORDSTROM and MR. HARGEST

Mathematics 11. Freshman Mathematics.

Mathematics 17. Mathematical Statistics.

PSYCHOLOGY

See also announcement of Department of Psychology

Psychology 11. General Psychology.

Psychology 190b. Industrial Psychology.

Department of Chemistry

PROFESSOR BULLOCK, PROFESSOR MARTELL, ASSOCIATE PROFESSOR KEGELES, ASSISTANT PROFESSOR SUGIHARA, VISITING LECTURER TODD

Courses in chemistry fall into two groups:

First, those primarily for undergraduates. These furnish a foundation for professional work in chemistry or medicine, and are suitable for students desiring some knowledge of the subject as part of their general education.

Second, those primarily for graduate students.

UNDERGRADUATE WORK

Students who intend to become professional chemists or to study for an advanced degree in chemistry should major in chemistry and take at least two years' work in physics.

They should normally conform closely to the schedule given below. However, an outstanding student may elect an accelerated program leading to advanced work in the junior and senior years.

REPRESENTATIVE FOUR YEAR CURRICULUM IN CHEMISTRY

First Year

English 11
German 11 (or French 11)
Chemistry 11
General Education 14
Mathematics 11

Second Year

Chemistry 13
Chemistry 14a and 14b
Physics 11
Mathematics 12
German 12 (or French 12)

Third Year

Chemistry 15
German 13 (or French 14)
Three of the following:
  Mathematics 13, Physics 15, Physics 16, Physics 18, Physics 124, German 11 or French 11, Geology, Biochemistry, Biology.

Fourth Year

Chemistry 19
Group B, one course
Group C, a half-course
Group D, a half-course
Two full courses from the following list:
  Chemistry 112b or 116, Chemistry 212b, Chemistry 215, Physics 15, Physics 17, Physics 22, Physics 23, Biology, Mathematics, German 12 or French 12.

A student who satisfies the Department of Chemistry as to outstanding qualifications, may elect Chemistry 13, Organic Chemistry, in place of Chemistry 11 in the freshman year. Chemistry 19 is required of all chemistry majors and is essential for work in physiology. Three years of mathematics are recommended as preparation for Chemistry 19 and for graduate work in chemistry. The same amount of mathematics is strongly recommended for all who elect chemistry as a major, and for all who expect to become professional chemists.

For professional work in chemistry, at least one year of graduate study is highly desirable.

Students who consider the possibility of later graduate study in chemistry are advised to secure a reading knowledge of both French and German in order to anticipate the requirements for higher degrees in most graduate schools.

Students who intend to enter the field of secondary education should acquaint themselves with the requirements in "education" of state and local licensing boards and prepare to meet these requirements. This may necessitate the omission of certain elective courses scheduled for the third and fourth years.

In most colleges, premedical students major in chemistry. Program B, outlined in the announcement of the Department of Biology, lists the courses most suited for preparation for all "Class A" medical schools. The special advantage of this program is the inclusion of Chemistry 19 (Physical Chemistry), necessary preparation for physiology.

Attention is called to laboratory fees and breakage deposits listed under the general heading "The Undergraduate Colleges" and the special heading "Fees and Expenses".

GRADUATE WORK

The Department of Chemistry offers advanced courses in the fundamental principles of physical, organic, inorganic, radiochemistry and analytical chemistry, and these are supplemented by specialized courses and research work in physical and organic chemistry and radiochemistry. The graduate program is designed to lead to the degrees of Master of Arts and Doctor of Philosophy. Besides a successful completion of the fundamental courses offered in the graduate school, candidates for both degrees must show facility in conducting a laboratory investigation and a command of the subject which is chosen for the thesis or dissertation.

All graduate students are required to have an adequate reading knowledge of French and German in order to be accepted for candidacy for the Ph.D. degree.

Students registered for advanced degrees are expected to spend not less than eighteen hours per week in the laboratory. This may include special laboratory work in radiochemistry, organic, inorganic, and physical chemistry.

Graduate scholarships and fellowships are available to students in this department. Further information may be obtained from the chairman of the department.

Courses in Chemistry

During the academic year 1953-54, the following courses were given: 11, 13, 14a, 14b, 15, 19, 112b, 116, 212b, 215, 31a, 31b, 35, 36a, 36b, 38, 315, 321.

In 1954-55 the following courses will be offered: 11, 13, 14a, 14b, 15, 19, 112b, 116, 212b, 215, 33, 35, 38, 39, 315, 322a, 322b, 323a, 323b.

1. PRIMARILY FOR UNDERGRADUATES

11. *General Chemistry.* Systematic study of the elements and their principal compounds and the fundamental laws and theories of chemistry. Three lectures and three hours of laboratory work per week.

Prerequisite for all other courses in chemistry.

Divisible only by consent of instructor.

Through the year. M. W. F., 10; Tu., 2-5 or Th. 2-5.

Mr. Martell

13. *Organic Chemistry.* Lectures on the principles of organic chemistry and a laboratory study of the preparation and properties of important organic compounds. Three lectures and three hours of laboratory per week.

Prerequisite: a grade of C–, or better, in Chemistry 11.

Through the year. W. F., 8; M., 10; W., 1-4. Mr. Todd

14a. *Gravimetric Analysis.* Required for a major in chemistry. Chiefly laboratory work.

Prerequisite: Chemistry 11.

Half course. First semester. F., 10; Tu. F., 2-5. Mr. Kegeles

14b. *Volumetric Analysis.* Required for a major in chemistry. Chiefly laboratory work.

Prerequisite: Chemistry 11.

Half course. Second semester. F., 10; Tu. F., 2-5.

Mr. Sugihara

15. *Chemical Principles.* An introduction to the fundamental principles of modern chemistry including a systematic study of gases, liquids, solids, solutions, equilibria, electrochemistry, atomic structure, valence, and radioactivity. Special emphasis on the principles of chemistry applicable to biological systems.

Two 75-minute lectures and three hours of laboratory work per week.

Prerequisite: Chemistry 13.

Through the year. Tu. Th., 11-12:15; M., 2-5. MR. SUGIHARA

19. *Physical Chemistry.* Principles of physical chemistry including gases, liquids, solutions, crystalline solids, chemical thermodynamics, homogeneous and heterogeneous equilibria, electrolytic conductance and transference, electromotive force, reaction kinetics, colloids.

Required for a major in chemistry.

Three hours of lectures and four hours of laboratory per week.

Prerequisites: Chemistry 15, 14b, Mathematics 12, Physics 11. Mathematics 13 is strongly recommended.

Through the year. Tu. Th., 10; M., 2; F., 2-5. MR. KEGELES

112b. *Physico-Chemical Methods.* An advanced laboratory course in physical chemistry. Registration limited.

Open to students who have taken or are taking Chemistry 19.

One lecture and six hours of laboratory work per week.

Half course. Second semester. Tu. Th., 2. MR. KEGELES

116a. *Organic Qualitative Analysis.* Prerequisite: Chemistry 13.

One lecture and six hours of laboratory work per week.

First semester. Tu. Th., 2-5; W., 2. MR. MARTELL

116b. *Advanced Organic Synthesis.* Prerequisite: Chemistry 13.

One lecture and six hours of laboratory work per week.

Second semester. Tu. Th., 2-5; W., 2. MR. BULLOCK

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

212b. *History of Chemistry.* Outline of historical development of the science, and the relation of chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis.

Open to graduate students and seniors who take or have taken Chemistry 13 and 19 or equivalent courses.

Half course. Second semester. Tu. Th., 11. MR. BULLOCK

215. *Honors Course.* Primarily for candidates for "honors in chemistry." STAFF OF THE DEPARTMENT

3. PRIMARILY FOR GRADUATE STUDENTS

31a. *Molecular Structure.* Theories of electronic structure and relationship between chemical binding and physical properties of various substances. Dipole moments, magnetic properties, bond energies and stereochemistry of organic and inorganic compounds.

First semester. M. F., 12. MR. MARTELL

31b. *Reaction Mechanisms.* Electronic interpretations of chemical reactions, acid-base concepts and solution catalysis, free-radical and ionic mechanisms.

Second semester, M. F., 12. MR. MARTELL

Chemistry 31a and 31b are offered together in alternate years. To be omitted, 1954-55.

321. *Advanced Physical and Colloid Chemistry.* Selected topics in physical and colloid chemistry described in detail. Introduction to thermodynamics. Phase rule. Chromatography. Electrochemistry. Osmotic and sedimentation equilibrium. Molecular kinetic properties of macromolecules in steady state systems.

Through the year. M. W., 1; S., 10. MR. KEGELES

Offered in alternate years. To be omitted 1954-55.

322a. *Quantum Chemistry.* Elementary wave mechanics, application to spectra, kinetic theory and statistics, molecular spectra, crystalline solids, imperfect gases and liquids. MR. SUGIHARA

Chemistry 322a and 322b are offered together in alternate years. Omitted 1953-54.

322b. *Advanced Inorganic Chemistry.* Periodic classification of many-electron atoms, chemical and physical properties of atoms and simple ions as functions of electron structure, solid state chemistry, solvents and solution phenomenon as applied to water and liquid ammonia systems. MR. SUGIHARA

323a. *Chemical Thermodynamics.* Applications of classical thermodynamics to chemical systems.

Offered in alternate years. Omitted 1953-54. MR. KEGELES

323b. *Statistical Mechanics.* Development of statistical mechanical analogs of thermodynamic functions and their application to problems in chemistry.

Offered in alternate years. Omitted 1953-54. MR. KEGELES

33. *Organic Chemical Reactions.* Lectures on the fundamental reactions in organic chemistry.

Offered in alternate years. Omitted 1953-54. MR. BULLOCK

333. *Heterocyclic Compounds.*

Offered in alternate years. To be omitted in 1954-55.

MR. BULLOCK

35. *Seminar.* Reports on research work being performed in the laboratory and reports and discussions of recently published work in related fields. THE STAFF AND GRADUATE STUDENTS

36a. *Radiochemistry.* Fundamentals of nuclear physics including nuclear structure, modes of radioactive decay, interaction of nuclear particles with matter. Radiochemical techniques of production, isolation, and identification of radioactive atoms, introduction to techniques of preparation and measurement of radioelements, applications to problems in chemistry and physics.

Offered in alternate years. To be omitted in 1954-55.

MR. SUGIHARA

Chemistry 36a and 36b are offered together in alternate years. They will be omitted in 1954-55.

36b. *Principles of Analytical Chemistry.* Theories of titrations, indicators, and pH measurement, titration in non-aqueous solvents, equilibrium theory of chromatography, ion-exchange resins, solvent extraction, theories of gravimetric analysis, principles of some instrumental analytical methods. MR. SUGIHARA

39a. *Coordination Compounds.* Lectures on the chemical properties of metal complexes, with emphasis on recent developments in the field of metal chelate compounds.

To be offered in the first semester of 1954-55. MR. CHABEREK

39b. *Principles of Instrumental Analysis.* A study of the principles involved in the use of analytical instruments, including potentiometry, infrared and ultraviolet absorption spectrophotometry, and polarography.

To be offered in the second semester of 1954-55. MR. CHABEREK

38. *Current Topics in Chemical Literature.* THE STAFF

315. *Research.* THE STAFF

Department of Classics

Associate Professor Barlow

The Department of Classics provides undergraduate courses for the acquisition of a reading knowledge of Greek and Latin and for the study of Greek and Latin literary masterpieces in their original form. Advanced courses providing a major in Classics are offered from time to time as the need arises. In addition to the courses requiring knowledge of an ancient language, there are others given entirely in English, which deal with all phases of the Greek and Roman civilizations.

Since it may not be possible to offer courses in elementary Latin and Greek every year, students who desire to elect them should consult the instructor as far in advance as possible.

During the academic year 1953-54 the following courses were given: Greek 11, 123a; Latin 13, 123b.

1. PRIMARILY FOR UNDERGRADUATES

GREEK

11. *Elementary.* Study of Greek grammar through forms, syntax, vocabulary, and reading; selections from Xenophon's Anabasis.
Indivisible course.
Open to freshmen.
Through the year. Tu. Th., 8:30-9:45. Mr. Barlow

12. *Plato, Apology and Crito; Homer, Iliad.*
Course not regularly offered.

13. *Greek Drama.* Prerequisite, Greek 12 or equivalent.
Course not regularly offered. Mr. Barlow

123a. *Greek Civilization.* Lectures and readings on the history, literature, philosophy, art, religion, and government of Greece, with emphasis on the elements which have contributed most to Western civilization. Given in English.

Greek 123 may be counted in fulfillment of the general requirement in art, music, and literature (Group D), but not in fulfillment of the requirement in foreign language.
Open to freshmen.
Half course. First semester. W. F., 11-12:15. Mr. Barlow

LATIN

11. *Elementary.* Introduction to the Latin language through study of forms, syntax, and vocabulary, with emphasis on the Latin element in English words. Reading of selections from Latin prose.

Indivisible course.
Open to freshmen. Mr. Barlow
Through the year.
Omitted 1953-54. To be offered 1954-55.

12. *Cicero, Orations; Vergil, Aeneid.*
Prerequisite: Latin 11 or two years of Latin for admission.
Open to freshmen. Mr. Barlow
Omitted 1953-54.

13. *Selections from Horace and Catullus; Comedies of Plautus and Terence.* The work of the course may begin with easy prose selections, to satisfy the lack of uniformity in preparation in secondary schools.

Prerequisite: Latin 12 or three or four years of Latin for admission.

Open to freshmen.

Through the year. Tu. Th., 1; W., 2. Mr. Barlow

15. *Livy and Tacitus; Cicero, De Amicitia, and Lucretius.*
Course not regularly offered.

17. *Roman Satire; Medieval Latin.*
Course not regularly offered.

19. *Survey of Latin Literature.*
Course not regularly offered. Mr. Barlow

123b. *Roman Civilization.* Lectures and readings on the history, literature, philosophy, art, religion, law, and government of ancient Rome, with emphasis on the transmission of Greek civilization, on the developments which have contributed to Western civilization, and on the condition of the Roman Empire during the early years of the development of Christianity. Given in English.

Latin 123 may be counted in fulfillment of the general requirement in art, music, and literature (Group D), but not in fulfillment of the requirement in foreign language.

Open to freshmen.

Half course. Second semester. W. F., 11-12:15. Mr. Barlow

Department of Economics and Sociology

PROFESSOR MAXWELL, ASSOCIATE PROFESSOR MELDER, ASSOCIATE PROFESSOR KILLIAN, ASSOCIATE PROFESSOR HARGEST, ASSISTANT PROFESSOR KELLEY, ASSISTANT PROFESSOR NORDSTROM, ASSISTANT PROFESSOR SCHAFFER, LECTURER BREEN, VISITING LECTURER BOSLAND, VISITING LECTURER FISHLER, VISITING LECTURER FRIEDLAND, VISITING LECTURER LUKENS

The first aim of the department, in its undergraduate courses, is to give the student a comprehensive grasp of the underlying principles and functions of our economic and social institutions, and to develop habits of systematic and unbiased thought about these institutions. Some of the courses, however, contribute to the student's preparation for a business or professional career (Economics 13, 15a, 22, 26, etc.) and are specifically recommended to students who are candidates for the degree of Bachelor of Business Administration. Conversely, some students majoring in economics may be advised to elect certain courses in Business Administration which are credited toward the degree of Bachelor of Arts (Business Administration 10, 16, 112, 117, 18, 124, 127, 20, 27a, 203, 220).

Students who have an interest in Business Administration but prefer a program which is less intensive than that required of candidates for the degree of Bachelor of Business Administration may enroll as candidates for the degree of Bachelor of Arts with a major in Economics. Such students should take the normal college program for freshmen and should elect *Business Administration* 10 for the Group B requirement. In the second year they should elect *Economics* 11 and *Business Administration* 117. In the third and fourth years they should elect courses in Economics and in Business Administration in consultation with their advisers.

Economics 11 is a prerequisite to all other courses in economics. Similarly Sociology 11 is a prerequisite to other courses in Sociology. Courses taken outside the department in partial fulfillment of the major requirement should be selected, subject to departmental approval, so as to provide a unified program centering about the student's major interest. Majors in economics will ordinarily be required to take Economics 205a, Intermediate Economic Theory, and also Economics 280a, Senior Comprehensive.

Candidates for departmental honors will engage in a program of independent study consisting of reading and research designed in part to give them specialized training in the fields of their major interest and in part to supplement formal courses. Ordinarily a student will not begin his independent study until the second semester of the junior year, nor will he undertake the equivalent of more than two courses in this manner.

Courses in sociology will be found listed, with descriptions, immediately after the list of courses in economics.

In making elections, students should bear in mind that some advanced courses are offered only in alternating years.

GRADUATE WORK

Students expecting to enter upon graduate work should have mastered creditably basic courses in economics equivalent to at least four courses, including Economics 11; those whose preparation is inadequate should expect to remove the deficiency before proceeding to study for a higher degree.

A range of courses sufficient for the needs of candidates for the doctorate is offered in cycles of two or three years. Individual work with instructors and in small intimate seminars constitutes a goodly part of the graduate student's program. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work.

Fellowships, scholarships, assistantships, and other aids are available to a limited number of worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

Courses in Economics

During the academic year 1953-54 the following courses were given: Economics 11, 13a, 13b, 15a, 21a, 22, 24b, 25b, 28, 205a, 206b, 207, 211b, 231, 260a, 280a, 39a, 311, 321, 322, 324, 325, 327.

Descriptions of courses listed below under the designation "Business Administration" will be found in the announcement of "Courses in Business Administration".

1. PRIMARILY FOR UNDERGRADUATES

11. *Principles of Economics.* An introduction to the fundamental economic principles, together with a study of the practical application of these principles to the problems of American life.

A class fee, $1.00 per year for each member of the class, is charged in Economics 11.

Indivisible course.

Through the year. Tu. Th., 10; a third hour to be arranged.

MR. SCHAFFER
Assisted by MR. CARSON

Business Administration 112. Personnel Management.

Business Administration 117. Accounting.

Business Administration 124. Marketing.

Business Administration 127. Intermediate Accounting.

13a. *Money and Banking.* The principles of money and banking; characteristics of the American monetary and banking system; theoretical relations of money, prices, income.

Half course. First semester. M. W. F., 10. MR. MAXWELL

13b. *Money and Banking.* Central banks, particularly the Federal Reserve System; monetary standards; theories of foreign exchange; monetary policy in the United States.

Prerequisite: Economics 13a or its equivalent.

Half course. Second semester. Tu. Th., 1-2:15. MR. FRIEDLAND

140b. *Consumer Economics.* A study of family budgets, planes of living, and other problems arising in the purchase of the customary goods and services. Emphasis is upon housing, insurance, savings, investments, consumer services supplied by advertisers, private non-commercial agencies, the government, and the cooperative movement.

Half course. Second semester.

Omitted 1953-54.

15a. *Public Finance.* The principles of governmental expenditures, revenues, and debts, with particular reference to the United States.

Half course. First semester. M. W. F., 9. MR. MAXWELL

Business Administration 16. Statistics.

Business Administration 18. Business Organization and Finance.

115b. *Fiscal Development of the United States.* This course treats the development of the functions and revenues of the federal government and of the state governments (with brief notice of municipalities). For the recent period most attention is given to federal-state fiscal interrelations in the form of federal grants-in-aid, tax conflicts and shared taxes. Recent proposals for a revision of federal-state fiscal relations both for the purpose of bringing federalism up to date and for implementing a high employment program are considered.
Prerequisite: Economics 11, or concurrent enrollment.
Half course. Second semester. Mr. Maxwell
Omitted 1953-54.

19b. *Economics of National Security.* This course examines the special economic problems faced by our contemporary American society as it undertakes a program of general military preparedness. Particular attention is given to overall American foreign policy and its relation to economic problems in production, resources and economic controls.
Prerequisite: Economics 11, or concurrent enrollment.
Half course. Second semester. Mr. Schaffer
Omitted 1953-54.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

Business Administration 20. Business Law.

205a. *Intermediate Economic Theory.* An analysis of contemporary economic theory, with attention to consumer demand, production, factor demand, prices, market structure, and aggregate economics.
Half course. First semester. Tu. Th., 8; W., 2. Mr. Schaffer

Business Administration 203. Marketing Research.

206b. *Economics of Industry.* Description and analysis of some basic American industries with emphasis on their important problems.
Half course. Second semester. Tu. Th., 9; W., 2. Mr. Schaffer

207. *International Economics.* The first half of the course reviews the rise of an international economy, the theory which accompanied it and the monetary mechanisms and analysis which underlay its operation. The second half is concerned with problems created by national policies, wars, and depressions.
Through the year. Tu. Th., 2-3:15. Mr. Melder

21a. *Business Cycles.* Analysis of recurrent business fluctuations differentiating the typical business cycle and its phases. Treatment of the history, theories of causation and proposals for control of the business cycle.

Half course. First semester. Tu. Th., 11-12:15. MR. SCHAFFER

21b. *National Income Analysis.* A study of national income accounts and analysis of depression, full employment and inflation under capitalism. Special emphasis on the work of J. M. Keynes and other contemporaries.

Half course. Second semester. MR. SCHAFFER
Omitted 1953-54.

210a. *Economic and Social Reform.* A study of the development of economic institutions involved in society's attempt to solve its basic economic problems. General emphasis on free enterprise, planning and contemporary industrial organization oriented towards an improved understanding of the American economy.

Half course. First semester. MR. SCHAFFER
Omitted 1953-54.

211b. *Comparative Economic Systems.* An analysis of contemporary and recent industrialized economic systems, particularly Great Britain, U.S.S.R., Nazi Germany, Fascist Italy, and Sweden.

Prerequisite: Economics 11, or concurrent enrollment.
Half course. Second semester. Tu. Th., 11-12:15. MR. SCHAFFER

Business Administration 220. Analysis of Business Problems.

22. *Labor Economics and Labor Problems.* The first semester is devoted to a survey of the nature of labor economics and labor problems, including the several approaches of organized workers and employers to these problems. The second semester is concerned with the approach of government to labor force problems including industrial relations and social insurance.

Through the year. Tu. Th., 9; M., 1. MR. MELDER

231. *Economic History of the United States.* In the first semester, colonial agriculture, industry, commerce and finance are briefly treated, followed by the Revolution and the Constitution, financing the Revolution, economic development to the Civil War, economic background and consequences of the Civil War. In the second semester the main topics are economic developments in agriculture, transportation, population, labor, industry, finance, currency and banking.

Through the year. W. F., 11-12:15.
MR. MAXWELL AND MR. CAMPBELL

24b. *History of Economic Doctrine.* After a quick survey of ancient writers, attention will be given to Mercantilism and the doctrinal reaction from it as expressed by the Physiocrats and the Classical economists.

Half course. Second semester. Hours to be arranged.
MR. MAXWELL

25b. *Problems in Public Finance.* This course deals mainly with problems of post-war taxation and fiscal policy. The theory underlying the so-called "full employment" act of 1946 is discussed, along with methods by which it may be implemented. Other questions for examination are reform of the federal corporate income tax and death duties, incentive taxation, federal debt policy, the capital budget, federal budgetary procedure.

Half course. Second semester. M. W. F., 9. MR. MAXWELL

26. *Government and Industry.* An analysis of the proper function of government in controlling economic activity, including theories of control, historical development of control, and such special problems as the regulation of trusts, public utilities, and railroads.

Through the year.
Omitted 1953-54.

260a. *Problems in Government and Industry.* Advanced study of the modern business corporation with special emphasis on financial practices and the need for, and development of, government regulation in the field of private finance.

Half course. First semester. Tu., 1-3:30. MR. BOSLAND

Business Administration 27a. International Trade and Finance.

28. *Research in Selected Economic Problems.* Includes departmental honors work and other individual projects completed for credit.

Hours as arranged. STAFF OF THE DEPARTMENT

280a. *Senior Comprehensive.* A survey designed to assist majors in integration of the field. Required for all senior majors.

Half course. First semester. Hours as arranged.
STAFF OF THE DEPARTMENT

29a. *Economics of Transportation.* A study of the development of the transportation system of the United States; its contemporary structure, importance, and economic aspects; the development of public control. Railway rate making and standards therefor; railway combinations and proposals for consolidation; railway labor problems.

Half course. First semester.

Omitted 1953-54.

3. PRIMARILY FOR GRADUATE STUDENTS

39a. *Economic Theory.* Analysis of the theories of representative economists. Most attention is given to Marshall, Chamberlin, Keynes.

Through the year. W. F., 2 - 3:30. MR. MAXWELL

311. *Seminar.* STAFF OF THE DEPARTMENT

Through the year. Hours to be arranged.

Research courses are offered to meet the needs of the individual students for work not presented in regularly scheduled courses.

321. *Research in Business Cycles.* MR. SCHAFFER

322. *Research in Labor.* MR. MELDER

324. *Research in Marketing.* MR. KELLEY

325. *Research in Public Finance and Money and Banking.* MR. MAXWELL

326. *Research in Business Organization and Government Control of Business.*

327. *Research in International Economics.* MR. MELDER

338. *Thesis.* STAFF OF THE DEPARTMENT

Sociology

An undergraduate whose primary interest is in sociology may meet the departmental requirement for a major by completing Economics 11 and three or four courses in sociology together with three or two approved courses in related departments. History 10, 205 and 230, Psychology 200 and 203, and Government 15 are particularly recommended for this purpose.

GRADUATE WORK

Students expecting to enter upon graduate work should have mastered creditably basic courses in sociology equivalent to at least four courses, including Sociology 11; those whose preparation is inadequate should expect to remove the deficiency before proceeding to study for a higher degree.

A range of courses sufficient for the needs of candidates for the master's degree only is offered. Individual work with instructors and in small intimate seminars constitutes a goodly part of the graduate student's program. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work.

Fellowships, scholarships, assistantships, and other aids are available to a limited number of worthy students.

Attention is directed to closely allied courses offered in philosophy, geography, history and international relations, and psychology.

Courses in Sociology

During the academic year 1953-54 the following courses were given: 11a, 11b, 12a, 12b, 21b, 25b, 28, 29. In the 1953 summer term: 12a, 21a.

1. PRIMARILY FOR UNDERGRADUATES

11. *Principles of Sociology.* A study of human origins and the development of man and his culture; cultural and ethnic backgrounds of social life; personality, culture and social structure; social organization and structure; social relations, social groups, collective behavior, human ecology; social differentiation and stratification; socialization and social interaction; social disorganization and change; social institutions and social norms.

Prerequisite for further work in sociology.

Through the year. Tu. Th., 8; a third hour to be arranged.

Mr. Killian

Assisted by Mr. Goldfaden

12a. *Introduction to Cultural Anthropology.* The evolution and development of man and his culture: Basic concepts; the races of man and their distribution; process of adaptation and adjustment through culture; primitive, historic and modern culture complexes compared; divergence, transmission, and function of culture; origin and growth of civilizations; contemporary preliterate peoples; relationship of anthropology to the other social sciences.

Half course. First semester. Tu. Th., 2-3:15. Mr. Fishler

12b. *Race and Nationality.* The meaning of race; the distribution of ethnic groups; ethnic group characteristics—biological and environmental theories. The meaning of nationality; early types of immigrants in America; the cultural backgrounds of the earlier Americans. American minority groups and problems—the Negro, the Jew and other minority groups. The effects of later immigration; immigration restrictions and the quota system; displaced persons and proposed legislative control measures; prospective future of the American population.

Half course. Second semester. Tu. Th., 2-3:15. MR. FISHLER

13b. *Crime, Delinquency and Society.* Study of the explanations for crime and delinquency; history of punishment; other methods of control. Survey of the English and American criminal law and administration of criminal justice; development of penal and correctional methods including probation, parole, release procedures; the juvenile court. Proposals for youth courts and youth correction authorities. Emphasis on crime as a system of behavior. Proposals for dealing with crime and delinquency.

Half course. Second semester. MR. KILLIAN
Omitted 1953-54.

16b. *Social Problems and Their Analysis.* A study of current social problems in the setting of social and cultural change; trends affecting the quantity and quality of problems; mobility, urbanization, secularization, individualization, population composition. A study, in this setting, of typical and selected problems such as dependency, personal maladjustment, group disfunction, institutional breakdown, minority groups and deviant behavior with particular reference to policy formation and institutional procedures.

Half course. Second semester. MR. KILLIAN
Omitted 1953-54.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

21b. *The Family and Society.* A study of the form and function of the family at different culture levels; the influence of geographic, biological, demographic and cultural forces; secondary groups and the family; rural and urban family.

Half course. Second semester. Tu. Th., 11-12:15. MR. KILLIAN

24b. *Community Organization.* The contemporary American urban and rural community in action. Nature and types of community; its place in history. Organization of communities in rural and urban life. Community studies and surveys. The constellation of community social agencies. The field of social work, recreation and welfare. Community chests and councils. Sociology and community organization.

Half course. Second semester. Mr. Killian
Omitted 1953-54.

25a. *Social Institutions.* Institutional theory: the history and development of major social institutions.

Social Control and Social Institutions. The basis of institutions in primitive experience: life functions and belief systems of primitive peoples; family and kinship systems as points of departure for institutional differentiation. Religious institutions: institutional aspects of religions in the historical contexts of Hebrew, Greek, Roman and modern experiences.

First semester. Mr. Killian
Omitted 1953-54.

25b. *Social Institutions. Legal Institutions.* Law and the social order: development of Western legal institutions; the normative content and analysis of legal institutions and law; relation to religious institutions; the legal tradition in Western society; law as a means of social control. Law, science and policy: law and its functions in modern times; the changing basis of legality; premises concerning man and his world in relation to law and its function. Sociology, anthropology and law: selected readings in theory and analysis of case materials.

Second semester. M. W., 2-3:15. Mr. Killian

28. *Research in Selected Sociological Fields.* Includes departmental honors work and other individual projects completed for credit.

Through the year. Hours as arranged.

See also: Economics 140b, 210a, 22.

29a. *Social Theory and Introduction to Sociological Concepts.* The development of man's ideas about social life, emphasizing the chief contributions from Plato and Aristotle to Herbert Spencer. The general progress of sociology since Spencer.

Half course. First semester. Tu. Th., 11-12:15. Mr. Killian

3. PRIMARILY FOR GRADUATE STUDENTS

38. *Research.*

See also: Economics 311, 322.

Department of Education

PROFESSOR JONES, ASSISTANT PROFESSOR LANE, ASSISTANT PROFESSOR BORGER, LECTURER HARRIMAN, LECTURER KAVANAGH, LECTURER COOK

With the cooperation of PROFESSOR ILLINGWORTH of the Department of English, ASSOCIATE PROFESSOR WARMAN of the Graduate School of Geography, ASSISTANT PROFESSOR BECK of the Department of Philosophy, MR. GRANGER, Director of Physical Education for Men and MISS HUGHES, Associate Dean for Women.

The department has as its primary objective the providing of professional study for teachers and prospective teachers in secondary schools. It offers work leading to the degree of Master of Arts in Education and specializes in instruction leading to that degree. Many of the regular courses are scheduled in the late afternoons to meet the needs of both full-time students in Education and in-service teachers.

UNDERGRADUATE WORK

A program of training for elementary school teaching was instituted for undergraduate students in 1953. This program is designed for juniors and seniors who have developed a strong and varied program of general studies in the first two years of college and who are interested in working with children of the age range of 10 to 14. The program includes not only the more essential courses in educational psychology, child study, and principles of teaching, but also a period of internship teaching in the senior year.

For undergraduate students interested in secondary school teaching as a career (and many Liberal Arts college graduates will be needed in this field), the department recommends high concentration upon the subject-matter fields in which they desire to teach, and suggests that they reserve for a fifth year the professional work in the theory and practice of education. In keeping with this general plan an undergraduate major in education is not offered.

GRADUATE WORK

The requirements for the degree of Master of Arts in Education cannot be adequately stated in terms of courses to be taken, because the evaluation of the work of each student will be made on the basis of achievement rather than on the basis of courses completed. However, the minimum essentials in terms of course requirements are outlined below.

Course requirements. The student is expected to elect one of the following groups of studies as the field in which he wishes to teach:

(a) Mathematics and natural sciences
(b) History, geography, and economics
(c) Ancient and modern foreign languages
(d) English, alone or in combination with some related subject.

Prior to receiving the degree, the candidate must have completed in undergraduate and graduate study combined not less than five year-courses in one of the above groups, or in a combination of groups approved by the Department of Education. At least two semester-courses in a subject-matter field must be taken as a part of the study in residence for the advanced degree and must be passed with a grade satisfactory for graduate credit. In addition to the above requirement in the subject-matter field, eight semester-courses of graduate work in education will normally be required. The program of courses to meet these requirements must be approved in advance by the Department. Changes in the proportion of education and subject-matter courses may be made by the Department on the basis of the candidate's previous training. Work, additional to the above requirements, either in the subject-matter field or in education, or both, may be required if this seems necessary for the adequate preparation of the candidate.

Apprenticeship Teaching. The Department provides opportunities for apprenticeship teaching under supervision for all graduate students majoring in Education. For graduate students of the Department who have not had teaching experience, satisfactory work in apprenticeship teaching is a requirement for the degree of Master of Arts in Education.

Thesis. All candidates for the degree of Master of Arts in Education must present an acceptable thesis or special report, as a part of the requirement for that degree. The thesis will be adapted to the vocational needs of the candidate and will not be regarded as an index of his capacity for research. In this respect it may differ somewhat from the thesis required of candidates for the degree of Master of Arts in other fields.

Courses in Education

During the academic year 1953-54, the following courses were given: 200b, 201a, 201b, 207b, 208a, 208b, 209a, 210a, 214, 215a, 260b, 263a, 27b, 311, 313, 315a and 350.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

200b. *Social Foundations of Education.* An analysis of elements in our American Society that form the background for our educational principles and practice.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. Tu. Th., 11-12:15. MR. BORGER

201a. *Educational Psychology: Child Growth and Development.* A study of the principles basic to the understanding of children with special attention to emotional and social development and learning in the elementary school years.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. First semester. W., 4 - 6. MR. LANE

201b. *Educational Psychology: Adolescent Growth and Development.* A study of psychological principles as they bear upon learning and other problems of education with special reference to the growth and development of youth of secondary school age.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. W., 4 - 6. MR. JONES

202b. *History of Education.* A study of the relationship between society and its educational agencies. One of the main purposes of the course is to help prospective teachers, and others interested in the schools and their place in society, to assess the strengths and weaknesses of our educational tradition.

Half course. Second semester. MR. BORGER

Omitted 1953-54. To be offered 1954-55.

203b. *Curriculum Development in Secondary Education.* A study of the historical background, basic issues, principles and procedures of curriculum organization and development.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. Mr. Borger

Omitted 1953-54.

205b. *The Teaching of English.* Methods of teaching composition, poetry, drama, novel and short story.

Half course. Second semester. Mr. Illingworth

Omitted 1953-54.

207b. *Use of Audio-Visual Materials and Community Resources in Teaching.* A survey of principles and practices in the use of visual and auditory materials and community resources in teaching.

Provisions will be made for extra meetings for undergraduates desiring a third hour of credit.

Half course. Second semester. Tu., 4 - 6. Mr. Borger

208a. *Methods and Materials in Secondary Education.* A study of methods and techniques used by the teacher in the secondary classroom and a survey of materials available.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. First semester. Th., 4 - 6. Mr. Borger

208b. *Principles of Secondary Education.* A survey of the major objectives of education, the special functions of the secondary school, and the principles which underlie the learning and teaching process.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. Th., 4 - 6. Mr. Borger

209a. *Teaching of the Social Studies.* A study of objectives, methods and materials in the teaching of the social studies in the secondary schools.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. First semester. F., 4 - 6. Mr. Borger

210a. *Psychological Approach to Citizenship Development.* A survey and evaluation of the experimental evidence and of the practices in the field of character and citizenship development among children and adolescents.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

To be offered in 1954-55 as a divisible course.

Through the year. W., 4 - 6. MR. JONES

214. *Tests and Measurements Applied to Psychological and Educational Problems.* A study of the measurement of aptitude, achievement, interest and attitude. Theoretical considerations and practical problems will be included.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Divisible course.

Through the year. M., 4 - 6. MR. JONES

215a. *Internship Teaching in the Elementary School.* An extended period of observation and practice in teaching under supervision in regularly organized classes in the middle grades in public schools. Each student is assigned to a critic teacher, under whom he or she works for a minimum of two days per week for the first semester. The first three weeks of this period is normally devoted to observation; the remainder of the time to teaching, to assisting the critic teacher with special projects and observation. Lesson planning, pupil evaluation, and playground supervision are required of each student.

Half course. First semester.

MRS. HARRIMAN, MR. JONES, MR. BORGER,
MISS KAVANAGH, AND CRITIC TEACHERS

Geography 20b. *Geography in Education.* A survey of geography in the present-day American schools. The course is designed to meet the needs of those expecting to teach geography.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. W., 4 - 6. MR. WARMAN

Omitted 1953-54. To be offered 1954-55.

25b. *Principles of Physical Education.* The course will provide instruction and laboratory work (1) in the principles and practice of organizing and teaching physical education, and (2) in the administration and teaching of athletic sports including the prevention and care of athletic injuries.

Two hours classroom work, including lecture and discussion, plus four hours laboratory and field work. Permission of instructor required.

Half course. Second semester. Tu., 4 - 6. Laboratory time to be arranged. MR. GRANGER AND ASSOCIATES

Omitted 1953-54.

27b. *Principles of School and Recreational Leadership.* The aim of this course will be to present the basic concepts and techniques of educational and recreational leadership with girls and young women. Lectures, readings, discussions, and field work. Permission of instructor required for registration.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. M., 4 - 6. MISS HUGHES

263a. *Teaching of Language Arts in Elementary Education.* This course considers methods and materials in the teaching of the language arts, in the middle grades, with special reference to reading. Particular emphasis will be given to provision for individual differences in teaching, and to the development of independent study skills. Visiting specialists will be brought in for lectures and demonstrations on certain topics.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. First semester. Th., 4 - 6. MISS KAVANAGH

260b. *Methods and Materials in Elementary Education.* A study of the most essential materials and methods in elementary school instruction. Special attention will be given to the methods of teaching and learning in the social studies and mathematics, with brief units on the methods of cooperating most effectively with special teachers in the arts. Lectures and demonstrations by visiting specialists will be provided on particular topics, and field trips will be arranged for class-room demonstrations of certain principles and procedures.

Provision will be made for extra work for undergraduates who desire a third hour of credit.

Half course. Second semester. Th., 4 - 6. MR. COOK

290b. *Philosophy of Education.* An examination of aims, processes and materials of education with special reference to the influence of philosophical ideas on educational problems.

Half course. Second semester. MR. BECK AND MR. JONES

Omitted 1953-54.

PRIMARILY FOR GRADUATE STUDENTS

311. *Vocational Guidance.* A survey of the techniques and tools of the vocational counselor, including occupational information, vocational testing, methods of interviewing and counseling, case histories and reports, administration and organization of vocational guidance programs.
Through the year. Tu., 4 - 6. MR. LANE

313. *Statistical Methods.* The purpose of this course will be to give an understanding of and practice in the statistical methods most valuable in measurement and research.
Through the year. Tu., 4 - 6. MR. JONES
To be given in the first semester only 1954-55.

315a. *Apprenticeship Teaching.* An informal course consisting of extensive practice teaching in the field or fields in which the student plans to teach. Individual supervision is given by the department and by critic teachers in coöperating schools.
First semester. Time to be arranged.
MR. JONES, MR. BORGER AND CRITIC TEACHERS

350. *Research in Education.* Individual direction of students in their research projects. THE STAFF

360. *Departmental Seminar.*
THE STAFF AND GRADUATE STUDENTS

Department of English

PROFESSOR ILLINGWORTH, ASSOCIATE PROFESSOR ANDERSON, ASSISTANT PROFESSOR CARTER, ASSISTANT PROFESSOR LETENDRE, ASSISTANT PROFESSOR BRADLEY

All freshmen who are candidates for the degree of Bachelor of Arts must take both English 11a and b. Freshmen enrolled in the Division of Business Administration are required to take English 11a and Business Administration 14b. Freshmen may also enroll in English 143b.

General Education 17 (Great English and American Writers) is designed especially for non-English majors, and either half is recommended for students who wish to take a course in literature as a means of fulfilling the requirement of a third semester of English beyond English 11. English 13a, 111, and other courses, with the consent of the instructor, are also open to non-English majors; especially recommended is English 13a (Introduction to Poetry).

A major in English consists of a minimum of seven courses in addition to English 11, as follows:

1. English 13a. Normally this course should be taken in the sophomore year. *For English majors,* English 13a is prerequisite to any of the following courses: 101b, 104, 105, 110, 113, 117b, and 122b.
2. English 150b and three other half-courses in English from a group of courses open only to juniors and seniors, namely: 101b, 104, 105, 110, 113, 117b, and 122b.
3. Three additional half-courses in English.
4. Three courses in allied fields: General Education 14; a year course in philosophy (preferably Philosophy 12); and one other course approved by the department of English, preferably from the following list: Fine Arts 11, French 113, German 141, Greek 123a, History 12, Latin 123b, and Music 12.

An English major who has not been credited with two units of Latin or Greek for admission to the college must complete either a course in Latin or Greek or a course in Classical civilization (Greek 123a and Latin 123b). If possible, this requirement should be met in the freshman year.

An English major who intends to do graduate work in English should elect at least two additional courses in English and should make certain that his program includes English 18a, 101b, 113, and History 12.

English majors should follow as closely as possible the following program:

First year

English 11
Group A
Group B (General Education 14)
Foreign language
One elective (A course which meets the general bachelor of arts requirement in Fine Arts is recommmended)

Second year

English 13a and three other half-courses in English from group of courses open to sophomores, namely: 16a, 18, 19b, 111, 126a, 127a, 142a, 143b, 146a, 147b, and General Education 18
Group A
Foreign language
One elective. One of the following is recommended: Fine Arts 11, French 113, German 141, Greek 123a, Latin 123b, History 12, and Music 12

Third year

Two half-courses in English from courses open only to juniors and seniors
Two other half-courses in English (recommended)
Foreign language
Group B (a year course in philosophy)
One elective

Fourth year

English 150b and one other half-course in English from courses open only to juniors and seniors
Four other half-courses in English (recommended)
Two electives

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department of English for the best poem by an undergraduate. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

Courses in English

During the academic year 1953-54 the following courses were given: 11, 12, 15, 18b, 104, 110, 113, 122b, 127a, 142a, and 150b; for the Division of Business Administration: B.A. 14b, B.A. 17a; in General Education: G.E. 17.

Courses in English are classified under the following headings:

I	Composition
II A	Literature, Surveys and Other General Courses
II B	Literature, Special Periods or Individual Authors
III	Public Speaking and Dramatics

Course number	Classification	
11	I	Composition
12	III	Public Speaking and Dramatics
13	II A	Literature, Surveys, etc.
15	II A	" " "
16	I	Composition
18	II A	Literature, Surveys, etc.
19	I	Composition
101	II B	Literature, Special Periods, etc.
104	II B	" " " "
105	II B	" " " "
110	II B	" " " "
111	II A	Literature, Surveys, etc.
113	II B	Literature, Special Periods, etc.
117	II B	" " " "
122	II B	" " " "
126	II B	" " " "
127	II B	" " " "
142	II A	Literature, Surveys, etc.
143	II B	Literature, Special Periods, etc.
146	III	Public Speaking and Dramatics
147	III	" " " "
150b	II A	Literature, Surveys, etc.

I. COMPOSITION

11. *Composition and Literature.* The purpose of English 11 is to develop clarity and accuracy in reading and writing. The first semester reviews the principles of rhetoric and offers the student practice in analyzing difficult expository passages. The second semester aims to help the student develop sound critical principles in evaluating fiction and poetry.

Required of freshmen in the Bachelor of Arts program. The first semester is required of freshmen in the Business Administration program.

Through the year. M. W. F., 8 and 9; Tu. Th., 8 and F., 1; Tu. Th., 9 and M., 1; Tu. Th., 10 and M., 2.

Mr. Anderson, Mr. Bradley, Mr. Carter, and Mr. Letendre

16a. *Creative Writing.* This course is designed for students who have demonstrated an aptitude for composition and who desire training in creative writing with emphasis on the short story. Individual conferences weekly.

Half course. First semester.

Omitted 1953-54.

19b. *Advanced Composition.* This course is designed for students who desire further training in the basic principles of composition. Special attention is given word choice, sentence and paragraph structure, and organization. Exposition is emphasized. Individual conferences.

Half course. Second semester.

Omitted 1953-54.

II A. LITERATURE: SURVEYS AND OTHER GENERAL COURSES

13a. *Introduction to Poetry.* Required of all English majors.

Half course. First semester. Mr. Bradley

New course. To be offered in 1954-55.

15. *A Survey of English Literature.* A course in English literature from its beginning to the present time.

No student may count both English 15 and General Education 17 toward the Bachelor of Arts degree.

Divisible for non-English majors.

M. W. F., 10. Mr. Anderson

To be omitted 1954-55.

General Education 17. Great English and American Writers. See "General Education" immediately preceding the alphabetical list of "Departments and Courses."

18b. *The Bible as Literature.* First semester, Old Testament; second semester, New Testament.

Half course. Second semester. M. W. F., 10. Mr. Illingworth

111. *A Survey of American Literature.* A course in American literature from Puritan times to the present.
Divisible for non-English majors.
Through the year. Mr. Anderson, *first semester*
Mr. Letendre, *second semester*
Offered in alternate years. Omitted 1953-54.

142a. *The English Novel.* A study of the novel from its beginning to Thomas Hardy.
Half course. First semester. M. W. F., 10. Mr. Illingworth
Offered in alternate years. To be omitted in 1954-55.

150b. *Senior Survey.* Required of all English majors, in the senior year.
Half course. Second semester. Mr. Anderson

II B. LITERATURE: SPECIAL PERIODS OR INDIVIDUAL AUTHORS

101b. *Chaucer.*
Half course. Second semester. Mr. Anderson
Offered in alternate years. Omitted 1953-54.

113. *Shakespeare and the Elizabethan Drama.*
Divisible course.
Through the year. Tu. Th., 11-12:15. Mr. Anderson
Offered in alternate years. To be omitted in 1954-55.

104. *Milton and the Seventeenth Century.*
Divisible course.
Through the year. M. W. F., 9. Mr. Carter
Offered in alternate years. To be omitted in 1954-55.

105. *Eighteenth Century.*
Divisible course.
Through the year. Mr. Carter
Offered in alternate years. Omitted 1953-54.

117b. *English Romantic Poetry.*
Half course. Second semester. Mr. Bradley
Offered in alternate years. Omitted 1953-54.

110. *Victorian Literature.*
Through the year. Divisible course. W. F., 11-12:15.
Mr. Bradley
Offered in alternate years. To be omitted 1954-55.

122b. *Modern Poetry.* Hopkins, Yeats, Eliot, and Auden are used as key figures in a general survey of the main trends in modern poetry and poetic criticism.

Half course. Second semester. Tu. Th., 9; M., 2. MR. LETENDRE
Offered in alternate years. To be omitted 1954-55.

126a. *Modern British and American Drama.*
Half course. First semester. MR. LETENDRE
Offered in alternate years. Omitted 1953-54.

127a. *Modern Continental Drama.*
Half course. First semester. Tu. Th., 9; M., 1. MR. LETENDRE
Offered in alternate years. To be omitted 1954-55.

143b. *The Modern Novel.* A comparative study of representative twentieth century novels of Russia, Germany, France, Sweden, England, and the United States to show how different cultures have treated this vehicle of literary expression.

Open to freshmen.
Half course. Second semester. M. W. F., 10. MR. ILLINGWORTH
Omitted 1953-54.

III. PUBLIC SPEAKING AND DRAMATICS

12. *Public Speaking.* A course in the composition and delivery of the most commonly used speeches, parliamentary procedure, discussion groups, and vocabulary drill.

Indivisible course.
Through the year. M. W. F., 9. MR. ILLINGWORTH

146a. *Oral Interpretation of Literature.* A course stressing the imagination and the dramatic instinct as fundamental sources of good oral and pantomimic expression. The intellectual elements of vocal expression are studied with special reference to phrasing, inflection, and emphasis; individual and choral speaking.

Permission of the instructor is a condition for enrolling in this course.

Half course. First semester. MR. ILLINGWORTH
Omitted 1953-54.

147b. *The Oral Interpretation of Shakespeare.* The life of Elizabethan England with special emphasis on the theatre of Shakespeare. The plays to be read will include *Hamlet, Cymbeline,* *Julius Caesar, King Lear, Othello, The Comedy of Errors, Merchant of Venice, Taming of the Shrew, As You Like It, Henry V* and *Richard II.*

Half course. Second semester. MR. ILLINGWORTH

Omitted 1953-54.

Department of Fine Arts

(ART AND MUSIC)

MR. COWARDIN, MR. GREEN

With the cooperation of ASSOCIATE PROFESSOR NICOL, ASSISTANT PROFESSOR BARLOW, ASSISTANT PROFESSOR EDWARDS, and MR. SANTE GRAZIANI, Head of the School of the Worcester Art Museum, and his Staff.

The Department offers two programs for a major in Fine Arts. One is intended for those interested primarily in the history of art. The other is designed to provide sound training in fundamentals for qualified students whose principal interest is in the practice of art.

The second of these programs, offered in cooperation with the School of the Worcester Art Museum, has the advantage of affording a thorough professional grounding in art in combination with liberal arts training. Courses to be taken in the museum school are carefully chosen with regard to the individual student's professional objective. Thus courses vary for those interested in the practice of painting or sculpture, the teaching of art, or commercial art. Students who elect this program will have completed, upon graduation, the approximate equivalent of two years of art school training. It should be emphasized that this is a program leading to the degree of Bachelor of Arts and that students electing it must fulfill all general requirements for that degree.

The specific requirements for a major in Fine Arts are as follows:

History of Art

1) The basic course, Fine Arts 11, to be completed before the end of the sophomore year.
2) Fine Arts 111.
3) General Education 14, to be completed before the end of the sophomore year.
4) Two full courses chosen from the following: Fine Arts 15, 16, 191a, 192a.
5) One full course chosen from the following: French 113, German 141, Greek 123a and Latin 123b.
6) Music 12.

Practice of Art

1) Fine Arts 11.
2) General Education 14.
3) Seven courses listed in the catalog of the School of the Worcester Art Museum.

Courses in Fine Arts

During the academic year 1953-54 the following courses in Fine Arts have been given: 11, 111, 12b, 16, 192a.

1. PRIMARILY FOR UNDERGRADUATES

Fine Arts 11. An Introduction to Western Art. A preliminary discussion of terminology and basic aesthetic considerations in the visual arts is followed by a study of architecture, sculpture, and painting from the beginnings to the present day. Field trips are required.

Open to freshmen.

Through the year. M. W. F., 9. MR. COWARDIN

Fine Arts 111. (*Representation I.*) Introduction to the drawing or depiction of objects in the field of vision; theory and practice in the statement of line, form, light and shade, and perspective. Study of the nature and use of materials and instruments; exercises from objects and from living models; observation of method and accomplishment found in museum collections.

Through the year. Nine class hours weekly. M. W. F., 1:30. At the Worcester Art Museum. MR. GRAZIANI AND MISS MURPHY

Fine Arts 12b. A Survey of Painting in the West. The development of pictorial expression from the beginning to the present. Emphasis is placed upon methods and styles. Field trips are required. Designed primarily for non-majors. May not be counted in addition to Fine Arts 11.

Open to freshmen.

Half course. Second semester. Tu. Th., 10; M., 2.

MR. COWARDIN

Fine Arts 15. Art of the Renaissance in Italy. A detailed consideration of the architecture, sculpture, and painting of the Italian Renaissance. The first semester is devoted to the fifteenth century and the second semester to the sixteenth. Emphasis is placed on the historical background. Field trips are required. Fine Arts 11 is ordinarily prerequisite.

Through the year. M. W. F., 10. MR. COWARDIN

Offered in alternate years. Omitted 1953-54.

Fine Arts 16. The Art of the Seventeenth and Eighteenth Centuries. A consideration of the origins of the baroque style, followed by a study of major works of European art of the seventeenth and eighteenth centuries. The principal stylistic trends are stressed. The more important artistic personalities—Bernini, Rubens, Rembrandt, Velasquez, and others, are also treated in detail. Field trips are required. Fine Arts 11 is ordinarily prerequisite.

Through the year. M. W. F., 10. MR. COWARDIN

Offered in alternate years. To be omitted 1954-55.

Fine Arts 191a. The Art of the Ancient Near East and India. This course is primarily concerned with architecture and sculpture in ancient Mesopotamia, Assyria, Persia, and India. Significant works are examined critically and studied in relation to their historical and religious background. Field trips are required.

Half course. First semester. MR. COWARDIN

Offered in alternate years. Omitted 1953-54.

Fine Arts 192a. The Art of China and Japan. An introduction to the art of the Far East. Sculpture and painting in China from the prehistoric period to the Ming dynasty, and, in Japan, from the Suiko to the Tokugawa period. Architecture will be treated only incidentally. Field trips are required.

Half course. First semester. Tu. Th., 10; M., 2. MR. COWARDIN

Offered in alternate years. To be omitted 1954-55.

Fine Arts 199. Advanced work at the School of the Worcester Art Museum for majors in the practice of art.

STAFF OF THE MUSEUM SCHOOL

Courses in Music

Music 12. Introduction to Music. Beginning with the genesis of sonata-form, the course extends to the beginning of the twentieth century. The Vienna classicists, the romantic movement, the rise of impressionism, and the so-called modernists are treated in various types of music heard in concert hall, opera house, and over the radio.

Through the year. Tu. Th., 10; F., 2. MR. GREEN

Music 13. The Opera.

Through the year. Omitted 1953-54.

Music 14a. The Life and Works of Beethoven. A formal and stylistic analysis of major works by music's most inspired prophet of the nineteenth century. There is intensive score-reading.

Music 12, or some previous interest in music is prerequisite.

Half course. First semester.

Omitted 1953-54.

Music 15b. Twentieth Century Music. Beginning most conspicuously with Debussy, newer idioms are traced in this course to the present day through careful study of works by Ravel, Stravinsky, Hindemith, Copland, Berg, Schönberg, Harris and many others whose scores have significance for their time. Music 12 or some acquaintance with the literature of music is prerequisite.

Half course. Second semester.

Omitted 1953-54.

French

A description of the offerings in French and a list of courses in French will be found in the announcement of the Department of Romance Languages.

General Education

A statement concerning General Education and a description of the courses offered under this heading will be found immediately before the announcement of the Department of Biology in this section of the university catalog.

Geography

Professor Van Valkenburg, Professor Murphy, Professor Lougee,* Associate Professor Warman,** Associate Professor Higbee, Assistant Professor Brunnschweiler, Instructor Burnham, Visiting Lecturer Raisz, Visiting Lecturer Awad

A complete statement of the organization and special requirements in the Graduate School of Geography will be found in an earlier section of this catalog under the heading The Graduate School of Geography.

UNDERGRADUATE PROGRAMS

Undergraduates planning to major in geography or to enter graduate work in geography are urged to consult the geography staff early in their undergraduate courses, to plan suitable programs including essential courses in related fields.

Majors in geography are required to take seven year-courses, or the equivalent, in geography and related fields. At least four, and not more than five of these courses must be in geography.

Geography 10, Principles of Geography, is usually taken in the freshman year (or as early as possible after the major subject is chosen to be geography). One or two of the following courses may be taken during the sophomore year: Geography 12a, Introduction to Climatology; Geography 16, Economic Geography; Geography

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*Absent on leave 1953-54.

**Absent on leave, second semester 1953-54.

191, Cartography. Courses in geography, such as 28a, Geography of New England, or 25, Conservation of Natural Resources, or regional courses should not be undertaken until the junior or senior years. Juniors of superior standing and seniors may be accepted, by special permission, to take number "2" geography courses, such as 27a Human Geography; 27b Cultural Geography; 201, Political Geography; 20b, Geography in Education (primarily for those expecting to teach); 282a, Geography of North America; 283b, Geography of South America; 285a, Geography of Europe. A non-credit seminar is conducted for all seniors who are majoring in geography.

COURSES IN FIELDS RELATED TO GEOGRAPHY

Students majoring in geography should plan early to take the required courses in other fields in order to possess the prerequisites for admission to advanced related courses in their junior and senior years to parallel the courses in their geography program.

Subjects in Group A, which are strongly recommended by the staff of the Department of Geography, are geology and biology. However, where special interest is expressed in physics, chemistry, psychology, or mathematics the student's program can be planned to include these subjects.

Related fields may be found listed under Group B. General Education 14 is recommended for the freshman year. Courses recommended for the sophomore year are: Sociology 11, Economics 11, Government 15, History 12. More advanced work in the fields of sociology, international relations, psychology and philosophy will depend largely upon the individual student's interests and desires.

"HONORS WORK" AND COMPREHENSIVE EXAMINATIONS

The Clark University Graduate School of Geography offers opportunity to properly qualified students for advanced training in geography. The staff, composed of specialists in their various fields of geography offer regular courses in instruction and direct advanced students in research work. Hence, a junior or senior pursuing an "honors program" in geography is afforded an opportunity to associate with other students in the Graduate School of Geography. For example, a superior student, after petitioning and receiving approval of the College Board and the Secretary of the

Graduate Board, may undertake Geography 391, Advanced Cartography; 314, Physiography of the Western Hemisphere; 33a, Soils; and 34, Land Use; 32, Climatology; 36, Problems of Economic Geography; and some graduate regional courses. On rare occasions an undergraduate student has been invited to participate in the Fall Field Camp of the Graduate School.

Independent research projects may be undertaken with the adviser in constant surveillance. This research work may be in the fields of human geography, physiography, geography in education, economic geography, land utilization, cartography and regional geography. Such research work must be completed within the semester in which it is started, or proof advanced that the study warrants more time. The staff also conducts an oral examination of at least one hour's length to ascertain the achievement of an "honors student".

A seminar, required of all seniors who are majoring in geography, is established to explore problems relative to the comprehensive examinations.

Courses in Geography

The following courses were given in 1953-54.

10, 283a, 37a	Mr. Warman
36, 361	Mr. Murphy
201, 32, 300, 385a	Mr. Van Valkenburg
12a, 16b, 298, 314	Mr. Brunnschweiler
16a, 252b, 33b, 34, 352a	Mr. Higbee
191, 291	Mr. Burnham
286b, 306a	Mr. Awad
391b	Mr. Raisz
30 *Seminar*	Staff
399a *Field studies*	Staff

1. PRIMARILY FOR UNDERGRADUATES

10. *Principles of Geography.* An introductory course dealing primarily with the physical phases of geography and the application of the principles of geography to the study of selected regions throughout the world. Juniors and seniors admitted only by special permission.

Open to freshmen.

Through the year. M. W. F., 10. Mr. Warman, *first semester*
Mr. Van Valkenburg, *second semester*

12a. *Introduction to Climatology.* Elements of meteorology and climatology with practical exercises. Emphasis on most recent theories; explanation of distribution of types of climate and weather.

Prerequisites: Geography 10 or equivalent.

Half course. First semester. M. W. F., 8. Mr. Brunnschweiler

16. *Economic Geography.* The geography of the world's mineral, plant and soil resources with special reference to problems of use and conservation.

Prerequisite: Geography 10 or Economics 11, or equivalent.

Through the year. M. W. F., 9. Mr. Higbee, *first semester*
Mr. Brunnschweiler, *second semester*

191. *Cartography and Graphics.* Preparation of maps, graphs, charts, and block drawings. Since space is limited the instructor should be conferred with upon registration.

Through the year. M., 3 - 5; Tu., 3. Mr. Burnham

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

20a. *Geography in Education.* A survey of geography in the present-day American school system, designed to meet the needs of those expecting to teach geography.

This class meets in the late afternoon for the convenience of public and private school teachers.

Half course. First semester. W., 4 - 6. Mr. Warman

Omitted 1953-54.

25b. *Conservation of Natural Resources.* A survey of natural resources including a study of ways and means of insuring wise utilization of essential or strategic resources.

Second semester. M. W., 1; a third hour to be arranged.
Mr. Higbee

Omitted 1953-54. To be offered in 1954-55.

28a. *Geography of New England.* A field and lecture course with special emphasis on Worcester first, then New England. Class meetings begin about the middle of October, following the field camp. Because of the late beginning, three special week-end programs of three hours each of laboratory work in the field, with carefully prepared reports of each, are required.

Prerequisites: Geography 10 and Geology 12, or equivalent.

Half course. First semester. M. W. F., 9. Mr. Lougee

Omitted 1953-54.

29. *Presentation Techniques of Geographic Material.* A methods course for graduate students who plan to teach on secondary, college, and university level. Non-credit course.
Hours to be arranged. MR. VAN VALKENBURG AND MR. WARMAN
Omitted 1953-54.

201. *Political Geography.* A study of major political problems of the world as related to geographic factors. Application of principles to international relations of selected regions.
Through the year. Tu. Th., 10; a third hour to be arranged.
MR. VAN VALKENBURG

252b. *Geography of American Agriculture.* An appraisal of the changing and changed pattern of agriculture in the United States including map revisions and most recent graphic materials available.
Half course. Second semester. M. W., 11. MR. HIGBEE

282b. *Geography of Anglo-America.* A systematic regional treatment of the physical, economic and cultural geography of the United States, Canada and Alaska.
Half course. Second semester. M. W. F., 9. MR. LOUGEE
Omitted 1953-54.

283a. *Geography of Middle America.* Historical background of the republics and islands of the Caribbean; analysis of selected important regions; increasing importance of the Caribbean area in commercial and political relations; detailed study of large scale maps.
A third contact hour for undergraduates will be arranged.
Half course. First semester. Tu. Th., 1:45-3. MR. WARMAN
To be omitted 1954-55.

283b. *Geography of South America.* Analysis of the major geographic regions; special geographic problems of Latin American governments; detailed study of topographic maps.
Half course. Second semester. M. W. F., 8. MR. WARMAN
Omitted 1953-54. To be offered 1954-55.

285a. *Geography of Asia.* An intensive survey of the continent region by region.
Half course. First semester. M. W. F., 10. MR. VAN VALKENBURG
Omitted 1953-54.

286b. *Geography of Africa.* A systematic regional treatment of the physical, economic and cultural geography of the continent of Africa.
Half course. Second semester. Tu. Th., 1:45-3. Mr. Awad

291. *Cartography and Graphics.*
Through the year. Hours to be arranged. Mr. Burnham

298. *Map and Aerial Photograph Interpretation.*
Through the year. Th., 3-5. Mr. Brunnschweiler
To be omitted 1954-55.

3. PRIMARILY FOR GRADUATE STUDENTS

30. *Seminar.* Required of all graduate students.
Hours to be arranged. The Staff

32. *Regional Climatology.* A study of the climates of the world by major regional examples.
Two hours, through the year. Tu. Th., 8. Mr. Van Valkenburg

33b. *Soils Geography.* A review of the development and character of soils, their distribution and economic significance, in the light of their geographical relationships.
Two hours. Second semester. M. W., 9. Mr. Higbee

34. *Land Utilization and Planning.* An outline of relationships that physical and cultural factors bear to purpose and pattern of land uses, conservation of land resources, and basic elements of land planning.
Two hours. Through the year. W., 2 - 4. Mr. Higbee

36. *Problems in Economic Geography.* An advanced study, emphasizing the various research fields of economic geography. Research methods and techniques in mining, agriculture, manufacturing and transportation are considered in detail.
Two hours, through the year. M. W., 10. Mr. Murphy
To be offered in 1954-55, three hours per week in the second semester only.

37a. *Human Geography.* A study of the influence and effect of location, area, relief, coastline, drainage systems, climate, and other geographic factors, separately, and in their mutual interaction upon the economic, social and political development of peoples and states.
Half course. First semester. M. W., 1. Mr. Warman

(37a and 37b should be taken in the same year.)

37b. *Cultural Geography.* A summary of the role that geographic factors have played in the evolution of races and cultures, artifacts and institutions.
Half course. Second semester. Tu. Th., 2. Mr. Warman
Omitted 1953-54. To be offered 1954-55.

39. *Historical Background of Geography.* A series of lectures on European and American phases.
Hours to be arranged. The Staff
Omitted 1953-54.

300. *Ph.D. Seminar.* Hours to be arranged.
Mr. Van Valkenburg

306. *Seminar on Africa.*
A non-credit course. Mr. Awad

311b. *Oceanography.* The study of the Oceans from the standpoint of the great basins, their inherent characteristics and their economic worth. Non-credit course.
Hours to be arranged.
Omitted 1953-54.

314. *Regional Physiography of Western Hemisphere.* A study of selected areas within the major physiographic regions. Laboratory interpretation of maps and aerial photographs.
Two hours of lecture and two hours of laboratory weekly.
Through the year. Tu. Th., 9; F., 3-5. Mr. Brunnschweiler
Offered in alternate years. To be omitted in 1954-55.

315. *Regional Physiography of the Eastern Hemisphere.* A study of selected areas within the major physiographic regions. Laboratory interpretation of maps and aerial photographs.
Two hours of lectures and two hours of laboratory weekly.
Through the year. Tu. Th., 9. Mr. Lougee
Offered in alternate years. Omitted 1953-54.

333a. *Biogeography.* Geographical significance of character, function, distribution, and relationships of plant and animal forms and societies in their adjustments to environment.
Two hours. Second semester. Mr. Higbee
Omitted 1953-54, 1954-55.
To be offered in the first semester of 1955-56.

352a. *Geography of American Agriculture.* An appraisal of the changing and changed pattern of agriculture in the United States including map revisions and most recent graphic materials available.
Half course. Second semester. M. W., 1. Mr. Higbee
Offered in alternate years. To be omitted 1954-55.

361. *Urban Geography.* The modern city from the viewpoint of geography. Particular emphasis is placed on the American city.
Two hours. Through the year. Tu. Th., 11. Mr. Murphy
To be offered in 1954-55 in the second semester only.

385a. *Geography of Europe.* Intensive survey of the continent and detailed study of selected regions.
Half course. First semester. M. W., 9. Mr. Van Valkenburg

387b. *Geography of the Pacific Area.* A regional treatment of the human geography of the islands of the Pacific.
Offered when demand warrants. Mr. Murphy
Omitted 1953-54.

391b. *Cartographic Presentation of the Geographical Landscape.*
Half course. Second semester. Mr. Raisz

399a. *Field Methods and Studies.* Required of every graduate student.
First three weeks of every year. The Staff

RESEARCH COURSES

(Under direction of proper staff members)

200. *Geography in Education*
310. *Regional Physiography*
320. *Climatology*
330. *Soils and Biogeography*
340. *Land Utilization*
350. *Agricultural Geography*
360. *Economic Geography*
360b. *Urban Geography*
370. *Human Geography and Demography*
380. *Regional Geography*
390. *Political Geography*

Department of Geology

PROFESSOR LITTLE

During the academic year 1953-54 courses 12 and 121 were given.

1. PRIMARILY FOR UNDERGRADUATES

12. *General Geology.* A course dealing with the origin of scenery, the classification and interpretation of rocks, the structure of the earth, the geography of the past, and the evolution of life.

Three recitations and one laboratory period weekly, at the University or in the field. Attendance on one program of laboratory work in the field lasting two to four days is required.

Indivisible course.

Through the year. M. W. F., 8; Th. 2. MR. LITTLE

121a. *Crystallography, Mineralogy, and Blowpipe Analysis.* An elementary course on the identification of minerals by their geometrical, physical, and chemical properties. General geology is not a prerequisite for this course.

Half course. First semester. Two afternoon meetings weekly.

Given in the second semester 1953-54 as 121b. MR. LITTLE

122b. *Economic Geology.* A course dealing primarily with the origin of the deposits of useful minerals with some reference to their more important occurrences throughout the world. Elementary chemistry and geology provide a desirable background for this course.

Geology 121 is a prerequisite.

Half course. Second semester. Two afternoon meetings weekly.

Omitted 1953-54. MR. LITTLE

Department of German

Professor Arndt, Assistant Professor Edwards, Mr. Beerbaum

REASONS FOR THE STUDY OF GERMAN

Nescire quid antea quam natus sis acciderit, id semper est esse puerum.
Cicero (106-43 B.C.)

Not to know what came to pass before you were born, is always to remain a child.

Wer nicht von dreytausend Jahren
Sich weiss Rechenschaft zu geben,
Bleib im Dunkeln unerfahren,
Mag von Tag zu Tage leben.
Goethe (1749-1832)

Whoever cannot account to himself for 3000 years of time, let him live from day to day, an inexperienced man groping in the dark.

Many centuries of a carefully fostered tradition of study, meditation, and research for the advancement of human learning have made the German language a great storehouse of information for almost all branches of human knowledge, and the soul of one of the greatest of Western cultures. For the intellectually curious American of our time, whether he plans a career as scientist, philosopher, theologian, professional soldier, technician, educator or public servant, the study of German will provide an almost indispensable insight into the intellectual, psychic, religious, political and economic life, especially of East and West Germany, Austria, and Switzerland, the crucial areas of past, present, and future international conflicts, and the home of thousands of American soldiers for almost a decade. As a command of the German language was considered one of the marks of an educated man in the time of the first flowering of New England, so it remains a most important study in our internationally far more complicated contemporary world.

DEPARTMENTAL OBJECTIVES

Out of an awareness of the important position of German areas for our country in peace or war, the Department of German offers a program of courses having the fourfold objective; 1, facility in the use of the German language (11, 12, 13, 132); 2, a comprehension of the outstanding cultural epochs in German history (141); 3, an integrated knowledge of the major German writers and thinkers (152, 153, 162); 4, an understanding of American and German relations in the past and present (200). Concentration in German as the mother tongue of the Central European geographical areas, provides an indispensable background for an intelligent understanding of American interests in Europe, for work in international relations, and in most scientific fields.

COMPREHENSIVE EXAMINATIONS AND MAJORS

For the time being the department will not require comprehensive examinations, but each major in the Department will be required to complete certain extra-curricular reading assignments given in a departmental reading list designed to aid the student in reaching the fourfold objective outlined above. All students wishing to major in German should see the head of the department before they register.

EXTRA-CURRICULAR ACTIVITIES

The department sponsors the following organizations:

The Germanic Society, an organization of students which provides an informal meeting ground for all those interested in the German language and culture. Its programs are regularly announced on the bulletin board and in the student newspaper.

Delta Phi Alpha, a chapter of the national honorary German fraternity. Outstanding students of German who have demonstrated their interest in the German language and culture may be invited to become members of the fraternity upon the nomination of the department.

Courses in German

During the academic year 1953-54 the following courses were given: 11, 12, 13, 132, 153, 162a, 200.

11. *Introductory German.* The regular first year course in German meeting three hours a week through the academic year. Study of pronunciation, vocabulary, elements of grammar, composition, and reading of suitable modern German prose.
Indivisible course.
Through the year. M. W. F., 8 and 10; Tu. Th., 10; M., 2.
Mr. Beerbaum, Mr. Edwards

12. *Intermediate German.* The regular second year course in German meeting three hours a week through the academic year. Review of first year grammar, translation from and into German, exercises in written and oral composition, reading of modern German prose.

Prerequisite: German 11 or two years of high school German.
Indivisible course.
Through the year. M. W. F., 8; Tu. Th., 9; M., 1.
Mr. Arndt, Mr. Beerbaum

13. *Advanced German Reading.* The regular third year course in German meeting three hours a week through the academic year. This course completes the undergraduate language requirement in German. In the first semester: reading of advanced German prose. In the second semester students will be introduced to the reading of contemporary scientific and literary German journals and newspapers.

Prerequisites: German 10b or 12.
Through the year. M. W. F., 10; Tu. Th., 9; M., 1.
Mr. Arndt, Mr. Edwards

132. *Oral and Written German.* Practice in writing German letters, study of modern prose as a basis for practice in the oral use of the language. May be offered to complete language requirement in German.

Prerequisites: German 12.
Through the year. Tu. Th., 8; F., 11. Mr. Beerbaum

141. *Germanic Civilization.* An illustrated lecture course in English on the literature, history, and the fine arts of the German lands from the Holy Roman Empire to the present day, with special stress laid upon the Reformation, the Age of Enlightenment and the Classical Period.

Through the year. M. W. F., 12. Mr. Edwards
Omitted 1953-54.

152. *German Literature I.* A survey of German literary movements from the earliest times to the end of the Classical Period.
Through the year. M. W. F., 9. Mr. Arndt
Alternates with course 153. Omitted 1953-54.

153. *German Literature II.* A survey of German literary movements from the beginning of the Romantic Period to the present.
Through the year. M. W. F., 2. Mr. Arndt
Alternates with course 152. To be omitted 1954-55.

162a. *Faust.* Goethe's *Faust* (both parts) as the highest poetic development of the Faust legend. Priest's translation is used.
Half course. First semester. Tu. Th., 8; M., 9. MR. ARNDT

200b. *German Seminar.* For German majors in their senior year. The work of the seminar will vary from year to year according to the needs of the students.
Half course. Second semester. Tu. Th., 11-12:15.
MR. ARNDT, MR. BEERBAUM

Department of History and International Relations

PROFESSOR LEE, PROFESSOR JORDAN, ASSOCIATE PROFESSOR HAYDEN, ASSOCIATE PROFESSOR CAMPBELL, ASSOCIATE PROFESSOR COHEN, ASSISTANT PROFESSOR RAEFF

UNDERGRADUATE WORK

In its undergraduate program the department gives basic courses in the fields of American, European, and British history, American and European government, and international relations. It offers departmental majors in history or government, and participates in the interdepartmental major programs: International Relations and American Civilization.

General Education 14 must be taken as early as possible by all majors in the department. Other courses primarily for undergraduates may be elected by non-majors who have not previously taken G.E. 14; and courses for advanced and graduate students may be taken by non-majors with the permission of the instructor if in his judgment the student has an adequate background for the course. Majors will normally take Economics 11 as well as G.E. 14 before the end of the sophomore year. Majors in government will normally take Government 15 before the end of the sophomore year. Further elections in this and related departments are determined by the major's special interests, but are expected to include at least two upper class (2) courses in this department. In addition History 20 is required of all senior majors as partial preparation for the comprehensive examinations given by the department in accordance with the program voted by the faculty.

GRADUATE WORK

The distinctive feature of the graduate work is the emphasis laid upon individual instruction and guidance by means of informal conferences between instructor and student, small classes, and seminars. The principal fields of graduate study are American, English and European history and politics, modern diplomacy, and the international relations of the United States, Europe, the British Empire and the Far East.

The program for the degree of Master of Arts is worked out individually with each student. All are required to take the departmental seminar (History 30). For general requirements, see the announcement of the Graduate School.

For the doctorate, a candidate must present six fields of study, two of which are normally written off by approved courses or by written examinations, while four are tested in the preliminary oral examination. The doctoral dissertation is written in one of the six fields, designated as the special field. The final doctoral examination covers both the dissertation and the special field.

Reading courses are offered to meet the wants of individual students who need work which is not presented in regularly scheduled courses. Thesis courses provide guidance for those preparing theses or dissertations. These may be semester courses or year courses.

Attention is called to related work offered in the fields of geography and economics from which minor fields for both the master's and the doctor's degrees may be chosen. Note also the announcement of the Division of International Affairs.

Courses in History

During the academic year 1953-54 the following courses were given: General Education 14, History 131, 20, 21, 205a, 205b, 211, 225, 231, 234a, 274b, 282a, 30, 311b, 314a, 331.

1. PRIMARILY FOR UNDERGRADUATES

General Education 14. Europe and the United States since 1500. For a complete description of this course, see *General Education.*
Required of all majors in the department.
Through the year. Tu. Th., 9; M., 1.

12. *History of England.* Dealing primarily with British history since the fifteenth century this course forms a background for the study of American history and English literature.
Through the year. Mr. Jordan
Offered in alternate years. Omitted 1953-54.

131. *Introduction to United States History.* A survey from the age of discovery to the present, with emphasis upon political and economic developments.
Through the year. M. W. F., 10. Mr. Campbell
Offered in alternate years. To be omitted in 1954-55.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

20. *Senior Conference.* Required of all seniors as part of their preparation for the comprehensive examinations. A list of required readings forms the basis for discussion which is intended to correlate and review the fields of history and government.
Half course, through the year. M., 3. The Staff

205a. *Introduction to Political Philosophy.* A study of the main trends of Western political thought with reference to their underlying social, political and economic realities.
Half course. First semester. Tu. Th., 8; F., 2. Mr. Jordan
Offered in alternate years. To be omitted in 1954-55.

205b. *Recent Political Thought.* The conflicting ideologies of our time in their development since the French Revolution. Marxism, Fascism, and Nazism will be analyzed with especial reference to their challenge to liberal democracy.
Half course. Second semester. Tu. Th., 8; F., 2. Mr. Jordan

21. *Foundations of Modern Europe.* Following an introductory survey of medieval history, the course will emphasize the Renaissance and Reformation to the second half of the 16th century.

Through the year. First semester, Tu. Th., 10; M., 1: second semester, W. F., 11-12:15. MR. LEE AND MR. RAEFF

Offered in alternate years. To be omitted 1954-55.

210a. *Europe, 1648-1830.* The development of the modern European states after the Peace of Westphalia with emphasis upon the background, course, and consequences of the French Revolution.

Half course. First semester. MR. LEE

Offered in alternate years. Omitted 1953-54.

211. *Europe Since 1830.* The development of the major European nations with special emphasis on the period from 1870 to the present.

Through the year. Tu. Th., 11-12:15. MR. LEE

Offered in alternate years. To be omitted 1954-55.

22a. *Tudor and Stuart England.* A survey of the period from 1485 to 1688 with particular attention to the social backgrounds of English literature and to the conditions leading to colonization of America.

Half course. First semester. MR. JORDAN

Omitted 1953-54.

221. *England Since 1760.* A general course, stressing the political, economic and social development of the modern commonwealth.

Through the year. MR. JORDAN

Omitted 1953-54.

225. *History of the British Empire.* In the second semester the course will deal with developments and problems since 1900.

Through the year. Tu. Th., 2-3:15. MR. JORDAN

Offered in alternate years. To be omitted 1954-55.

23a. *American Colonial History to 1776.* This will include the European backgrounds of American history with particular reference to England, and the political, economic, and social development of the colonies.

Half course. First semester.

Omitted 1953-54.

230. *Social and Intellectual History of the United States.* Beginning with a brief survey of the European background of Ameri-

can ideas and institutions, this course deals with the main currents in American thought and society from colonial times to the present.
Through the year. MR. CAMPBELL
Offered in alternate years. Omitted 1953-54.

Economics 231. Economic History of the United States.
MR. MAXWELL AND MR. CAMPBELL
Offered in alternate years. To be omitted 1954-55.

232. *United States Constitutional History and Law.* A survey of the major developments in our constitutional system and law with emphasis in the second semester upon contemporary problems.
Prerequisite: History 131 or Government 15.
Through the year. MR. CAMPBELL AND MR. COHEN
Offered in alternate years. Omitted 1953-54.

234a. *American Diplomatic History.* The history of the foreign relations of the United States from 1783 to about 1941.
Half course. First semester. Tu. Th., 11-12:15. MR. HAYDEN
To be omitted 1954-55.

235b. *The United States in the Twentieth Century.* A study of the chief influences in American civilization since 1900, with special attention to the emergence of current social and economic problems.
Half course. MR. CAMPBELL
Omitted 1953-54. To be offered in the summer session 1954.

274b. *The Modern Far East.* The course deals primarily with international relations in the region since 1895.
Half course. Second semester. Tu. Th., 11-12:15. MR. HAYDEN
Offered in alternate years. To be omitted 1954-55.

281. *History of Russia.* From the origins of the Russian state to the present. Special attention is given to the development of Russian society and the ideological preparation of the Revolution. The period since Peter the Great is treated in the second semester.
Through the year. MR. RAEFF
Offered in alternate years. Omitted 1953-54.

282a. *History of the Soviet System.* Major emphasis is laid on the process of consolidation and transformation of the Soviet system after its establishment in 1917. The last part of the course deals with developments since 1941, with special reference to the sovietization of Eastern Europe and China.
Half course. First semester. W. F., 11-12:15. MR. RAEFF

Honors Conference. A course for honors candidates, in which emphasis is put upon student reports and discussion.
Through the year. Hours to be arranged. The Staff

3. PRIMARILY FOR GRADUATE STUDENTS

30. *Department Seminar.* Introduction to bibliography and methods of research, and discussion of research problems being investigated by graduate students and faculty.
Required of all first-year graduate students in the department.
Half course. First semester. W., 4 - 6. Mr. Lee and The Staff

311b. *European Intellectual History.* A study of currents of thought in the 19th century.
Half course. Second semester. Mr. Jordan and Mr. Raeff

314a. *European International Relations, 1870-1918.* A study of the diplomatic history of Europe from the Franco-Prussian War to the First World War.
Half course. First semester. Th., 3:30-5:30. Mr. Lee

321a. *England in the Twentieth Century.* The development of the United Kingdom from the time of its greatest power to its present struggle to maintain a world position.
Half course. First semester. Mr. Jordan
Omitted 1953-54.

331. *Problems in the History of the United States since 1900.* An analysis of the fundamental factors making for change in American economic and political thought at the turn of the century is followed by an intensive study of political developments.
Through the year. M., 4 - 6. Mr. Campbell

GRADUATE READING AND THESIS COURSES

31.	*Reading*	*In the History and International Relations of Europe.*	Mr. Lee
310.	*Thesis*		
32.	*Reading*	*In the History and International Relations of England and the British Empire.*	Mr. Jordan
320.	*Thesis*		
33.	*Reading*	*In the History of the United States.*	Mr. Campbell
330.	*Thesis*		
38.	*Reading*	*In Early Modern and Slavic History.*	Mr. Raeff
380.	*Thesis*		

Courses in Government

During the academic year 1953-54, the following courses were given: Government 15, 24, 25a, 240, 252b, 351.

1. PRIMARILY FOR UNDERGRADUATES

15. *Introduction to American Government.* A short survey of the theories of the origin and purpose of the state is followed by a study of the functioning of the government of the United States with emphasis on contemporary problems of the federal government.
Through the year. M. W. F., 9. MR. COHEN

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

24. *International Relations.* A survey of the course of world politics since 1914, with emphasis on the shifting patterns of power and the rise of new nations and revolutionary doctrines. Special attention is given in the second semester to the Second World War and its consequences.
Through the year. Tu. Th., 9; M., 1. MR. HAYDEN

240. *Seminar in International Relations.* Group study of certain problems in contemporary affairs. Required of seniors in the international relations major; open as an elective only with the instructor's permission.
Through the year. Tu., 3:30, and conferences. MR. HAYDEN

241. *International Law and Organization.* First semester: the historic principles of international law and their application in the modern world. Second semester: an examination of the institutions created to deal with problems of commerce, social welfare, and collective security on an international basis.
Through the year. M. W. F., 9. MR. HAYDEN
Offered in alternate years. Omitted 1953-54.

25a. *Comparative Government.* The governments and politics of Great Britain and the major European powers.
Half course. First semester. M. W. F., 10.
Offered in alternate years. To be omitted 1954-55.

251a. *American Political Parties.* A study of the functioning of American party organizations, pressure groups, and the electorate in American politics. Emphasis is placed upon current problems and trends in the field.

Half course. First semester. Mr. Cohen
Offered in alternate years. Omitted 1953-54.

History 232. United States Constitutional History and Law. See courses in History. Mr. Campbell and Mr. Cohen

252b. *Introduction to Public Administration.* An introductory examination of the role of administration in modern government, including problems of personnel administration, fiscal management, administrative regulation and government organization.

Half course. Second semester. M. W. F., 10. Mr. Cohen
Offered in alternate years. To be omitted 1954-55.

3. PRIMARILY FOR GRADUATE STUDENTS

341. *International Relations Seminar.* A study of contemporary problems by means of student research and reports.

Through the year. Hours to be arranged. Mr. Hayden
Omitted 1953-54.

351. *Problems in American Government.* A study primarily by means of student research and discussion of selected contemporary problems in American government, including the legislative process, public opinion, and political parties.

Through the year. Hours to be arranged. Mr. Cohen

GRADUATE READING AND THESIS COURSES

34. *Reading*
340. *Thesis*
In International Relations. Mr. Hayden

35. *Reading*
350. *Thesis*
In American and Comparative Government and Politics. Mr. Cohen

Interdepartmental Majors

To provide undergraduate "majors" in certain fields which are intrinsically worthwhile culturally or professionally but which cross departmental boundaries, the Faculty has authorized a group of "interdepartmental majors".

At present two programs are offered under this plan:

I. International Relations
II. American Civilization

A description of these majors will be found at the beginning of the section "Departments and Courses" in this catalog, immediately after the introductory statements.

International Relations

See the announcement of the Department of History and International Relations and also the announcement of the Graduate Division of International Affairs.

An "interdepartmental major" in the field of International Relations is offered to candidates for the degree of Bachelor of Arts. The program required for the completion of this major is fully outlined under the earlier heading *Interdepartmental Majors.*

Department of Mathematics

PROFESSOR BUMER, ASSOCIATE PROFESSOR STUBBE, ASSISTANT PROFESSOR GORENSTEIN

The department of mathematics offers courses leading to an undergraduate major in mathematics, courses necessary for the study of the physical sciences and courses for the student who wishes to learn about the fundamental concepts of mathematics primarily for their cultural value. Some of the courses offered are for advanced undergraduates and graduate students.

Courses 11, 12, 13 and 214 form the basis of a major in mathematics and are important for the study of the physical sciences. A major in mathematics normally includes one course in mathematics in addition to the four courses above and two courses in an allied field of study such as physics, chemistry or philosophy.

Courses in Mathematics

During the academic year 1953-54 the following courses were given: Mathematics 11, 12, 13, 17, 215, 216, 218 and Business Administration 13.

1. PRIMARILY FOR UNDERGRADUATES

11. *Freshman Mathematics.* Course 11 has for prerequisites one course in algebra and one course in plane geometry taken in the secondary schools, although at least three courses in secondary school mathematics are advisable. Careful attention is given to fundamental concepts and to the development of useful techniques. Topics in algebra, trigonometry and analytic geometry are introduced.

A qualified student may request permission to take an attainment test in the subject matter of course 11. If he passes such a test he may enter course 12.

Through the year. M. W. F., 9 and 10: Tu. Th., 8; F., 2.

MR. STUBBE, MR. GORENSTEIN

12. *Calculus.* Course 12 introduces both the differential and integral calculus and is essential to further work in mathematics as well as to work in the natural sciences.

Prerequisite: Course 11 or its equivalent.

Through the year. M. W. F., 9: Tu. Th., 10; M., 2.

MR. BUMER, MR. GORENSTEIN

13. *Intermediate Calculus and Differential Equations.* This course includes a discussion of geometric and physical applications of integration, sequences and series, partial differentiation and double integration; also, ordinary differential equations, with emphasis on the principal types of first and second order equations. Applications to geometry, physics, chemistry, and mechanics are stressed.

Prerequisite: Course 12.

Through the year. M. W. F., 9. MR. STUBBE

17. *Mathematical Statistics.* Topics discussed include frequency distributions, moments, tests of significance, correlation, theory of large and small sampling. Although numerous applied problems are worked out in detail by the students, emphasis is placed on the mathematical theory.

Prerequisite: Course 12.

Through the year. Tu. Th., 11-12:15. MR. BUMER

Offered in alternate years. To be omitted 1954-55.

19. *Solid Analytic Geometry and Projective Geometry.* Topics of three-dimensional analytic geometry discussed are: planes and lines, matrices, determinants, transformation of coordinates and quadric surfaces. Topics of projective geometry studied are: postulates for projective geometry, homogeneous coordinates, principle of duality, cross ratio, projective transformations and projective theory of curves of the second degree.

Prerequisite: Course 12.

Through the year. M. W. F., 9. MR. GORENSTEIN

Offered in alternate years. Omitted 1953-54.

General Education 110. Fundamental Concepts of Elementary Mathematics.

For description of this course, see courses listed under General Education.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

214. *Advanced Calculus.* The following topics are among those studied: complex numbers, partial differentiation, infinite series, vector analysis, multiple and line integrals. Some emphasis is placed on the uses to which the topics can be put in the sciences and engineering.
Prerequisite: Course 12.
Through the year. Tu. Th., 11-12:15. MR. BUMER
Omitted 1953-54.

215. *Modern Algebra.* The course affords an introduction to modern algebraic systems: groups, integral domains, rings, fields, abstract vector spaces, matrices and related topics. The emphasis is on developing in the student the modern axiomatic point of view, with considerable attention given to the nature and construction of formal proof.
Prerequisite: Course 12.
Through the year. Tu. Th., 11-12:15. MR. GORENSTEIN
Offered in alternate years. To be omitted 1954-55.

216a. *Introduction to Complex Variables.* The course affords an introduction to analytic functions, line integrals, conformal mapping. Considerable attention is given to rigor and many examples are studied to illustrate applications.
Prerequisite or taken concurrently: Course 214.
Half course. First semester. W. F., 11-12:15. MR. BUMER
Offered in alternate years. To be omitted 1954-55.

216b. *Advanced Differential Equations.* Some partial differential equations of mathematical physics, Fourier Series and boundary value problems, systems of ordinary differential equations are studied.
Prerequisite: Course 13.
Half course. Second semester. W. F., 11-12:15. MR. STUBBE
Offered in alternate years. To be omitted 1954-55.

218. *Introduction to Analysis.* The following topics are studied: the structure of the real number system, algebra of sets, cardinality, sequences and series and certain theorems concerning functions of a real variable. An introduction is made to the study of measure and the Lebesgue integral.
Prerequisite: Course 12.
Through the year. Tu. Th., 2-3:15.
MR. GORENSTEIN, *first semester*
MR. STUBBE, *second semester*
Offered in alternate years. To be omitted 1954-55.

Orientation and Hygiene

Orientation and Hygiene. A required non-credit course for freshmen. Two series of weekly meetings are devoted respectively to orientation and hygiene.

Orientation: the history and nature of the university; liberal and vocational education; the curriculum; the individual in relation to the institution, the staff and fellow students; the library; reading; note taking; methods of study; examinations; etc.

First semester. Tu., 11. MISS HUGHES AND MR. LANE

Hygiene: human anatomy and physiology as related to health, efficiency and human relationships.

First semester. Th., 11. DR. CONSTANTIAN AND DR. KRESSLER

Department of Philosophy

PROFESSOR JEFFERSON, ASSISTANT PROFESSOR BECK

The Department of Philosophy offers courses designed to broaden the student's perspective and help him trace the relations among the various fields of knowledge. These courses may also form the basis of a major in philosophy.

A major in this department consists of four courses in philosophy and three additional courses in related fields. The specific courses in related fields are determined in the light of the students' special interests.

Courses in Philosophy

During the academic year 1953-54 the following courses were given: 11a, 11b, 12, 13a, 13b, 16a, 16b.

Philosophy 11a. Logic and Scientific Method. The principles of valid reasoning and inductive methods; the application of these principles and methods to the problems of the natural and social sciences, and the consideration of the relation between logic and problems of value.

Open to freshmen.

Half course. First semester. M. W. F., 8. MR. BECK

Philosophy 11b. Problems of Philosophy. The nature and method of philosophy. The application of philosophical method to contemporary personal and social problems. A detailed analysis of some typical problems in the various fields of philosophy.

Open to freshmen.

Half course. Second semester. M. W. F., 8. MR. BECK

Philosophy 12. History of Philosophy. The movements of philosophical thought from the early Greeks to the present day. First semester: Greek and Medieval Philosophy. Second semester: Modern Philosophy.

Not open to freshmen.

Divisible course, with consent of the instructor.

Three hours, through the year. M. W. F., 9. MR. JEFFERSON

Philosophy 13a. Problems of Ethics. A constructive study of important ethical theories. Designed to acquaint the student with the problems and scope of ethics, and to aid him in the formulation of an ethical outlook.

Open to juniors and seniors.

Half course. First semester. W. F., 11. MR. BECK

Philosophy 13b. Social Philosophy. The principles underlying social structure and functions. The examination of the goals, purposes, norms, and ideals of social process, and the relation of that process to the individual good.

Open to juniors and seniors.

Half course. Second semester. W. F., 11. MR. BECK

Philosophy 14. Contemporary Philosophy. An intensive study of important thinkers representative of modern developments in philosophy, together with emphasis on the historical roots of their thought.

Prerequisite: One and one half courses in philosophy, including Philosophy 12; or permission from the instructor.

Divisible course.

Through the year. Tu. Th., 2. MR. BECK

Omitted 1953-54.

Philosophy 15b. Types of Religious Philosophy. The religious ideas and ideals of Western civilization and their embodiment in specific religious institutions.

Open to juniors and seniors.

Half course. Second semester. W. F., 11.

Omitted 1953-54. MR. JEFFERSON AND MR. BECK

Philosophy 16a. *Readings in Ancient Philosophy.* Advanced work in the writings of one or more of the important philosophers of the ancient period. Subject for 1953-54, Plato's *Dialogues.*

Prerequisite: One and one-half courses in philosophy, including Philosophy 12; or permission from the instructor.

Half course. First semester. Hours to be arranged. MR. BECK

Philosophy 16b. *Readings in Modern Philosophy.* Advanced study of representative thinkers of the modern period. Subject for 1953-54, Spinoza.

Prerequisite: One and one-half courses in philosophy, including Philosophy 12; or permission from the instructor.

Half course. Second semester. Hours to be arranged. MR. BECK

See also *Education 290b, Philosophy of Education* in the announcement of the Department of Education.

Department of Physics

PROFESSOR ROOPE, ASSOCIATE PROFESSOR GUNTER

UNDERGRADUATE WORK

The department offers fundamental courses required in preparation for the study of chemistry, biology, meteorology and allied sciences, medicine, dentistry, engineering and science teaching, as well as courses leading to professional or graduate work in physics.

The requirement for a major in physics consists of Physics 11, two courses from Physics 15, 16, 17, 124, either Physics 22 or 23, Mathematics 11 and 12, and Chemistry 11. In addition, electives in Physics, Mathematics and Chemistry are desirable. Students preparing for graduate work should also obtain a good reading knowledge of French and German while in college.

Physics 11 or its equivalent is the normal prerequisite for all other courses in the department. Courses numbered 15 or higher, except 17 and 124, require the use of calculus and should not be elected without consulting the instructor in charge. Courses 15, 17 and 23 each require a limited amount of laboratory work to be done at the discretion of the instructor and at such times as will not interfere with regularly scheduled courses.

GRADUATE WORK

Students whose records are approved by the department may be admitted by the Graduate Board to work leading to the degree of Master of Arts.

Courses in Physics

During the academic year 1953-54 the following courses were given: 11, 15, 16, 17, 23; also General Education 10.

During the year 1954-55 the following undergraduate courses will be offered: 11, 17, 124, 22, 28a, 28b and General Education 10.

1. PRIMARILY FOR UNDERGRADUATES

General Education 10. An Introduction to Physical Science. For description of this course see courses listed under General Education.

11. *General Physics.* Mechanics, heat, electricity and magnetism, wave motion, sound, and light.
Indivisible course.
Open to freshmen.
Through the year. M. Tu. Th., 8; M. or Th., 2. Mr. Gunter

13. *History of Physics.* Mr. Roope
Omitted 1953-54.

15. *Heat and Thermodynamics.* This course includes a study of thermometry, calorimetry, the thermal properties of matter in the solid, liquid and gaseous states, the laws of thermodynamics, and applications to a wide range of phenomena.
Prerequisites: Physics 11 and Mathematics 12.
Through the year. W. F., 11-12:15. Mr. Roope

16. *Optics.* The first semester is devoted to a study of the principles of geometrical optics and their application to various optical instruments, including ground and aerial cameras. The

second semester is devoted to the principles and application of physical optics.

Prerequisites: Physics 11 and Mathematics 12 (may be taken concurrently).

Through the year. Tu. Th., 9; Tu., 2. MR. GUNTER

17. *Introduction to Modern Physics.* An elementary treatment of physical experiment and theory of the past fifty years including the more recent atomic and nuclear developments.

Through the year. M. W. F., 9. MR. ROOPE

124. *Fundamentals of Electronics.* This is a first course in electronics designed to give a broad, largely non-mathematical, background for the understanding of electron tubes and their associated circuits. The application of modern electronic devices to the fields of physics, chemistry, biology, meteorology, and navigation is discussed.

Prerequisite: Mathematics 11.

Through the year. Tu. Th., 9; Tu. or Th., 2. MR. GUNTER

Omitted 1953-54. To be offered 1954-55.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

22. *Theoretical Mechanics.*

Prerequisite: Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. W. F., 11-12:15. MR. ROOPE

Omitted 1953-54. To be offered 1954-55.

23. *Electricity and Magnetism.* The fundamental laws of electric and magnetic circuits and fields are treated. The elements of electromagnetic wave propagation and their application to antenna design are included in this treatment.

Prerequisites: Physics 11 and Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. Tu. Th.,11- 12:15; Tu. or Th., 2. MR. GUNTER

24. *Advanced Electronics.* This course is a detailed theoretical study of certain electronic phenomena from a mathematical point of view.

Prerequisites: Mathematics 12 and Physics 124 or Physics 23. Mathematics 13 is desirable but not required.

Through the year. MR. GUNTER

Omitted 1953-54.

PROV
14

28a. *Theoretical Spectroscopy.* The origin of line and band spectra in both emission and absorption spectrophotometry is treated.

Prerequisites: Physics 11 and Mathematics 12 (may be taken concurrently). Physics 16 and 17 are desirable but not required.

Half course. First semester. MR. GUNTER

Omitted 1953-54. To be offered 1954-55.

28b. *Experimental Spectroscopy.* The theory and applications of the optical and electrical instruments used in an experimental spectroscopy are discussed. The student will become familiar with the use of prism and grating spectrographs, micro-densitometers, interferometers, and their associated photographic and electrical techniques. The principles of spectrochemical analysis are included in this course.

Prerequisites: Physics 16 or Physics 28a, and Mathematics 12 (may be taken concurrently). Physics 17 is desirable but not required.

Half course. Second semester. Tu., 11; Tu. Th., 2. MR. GUNTER

Omitted 1953-54. To be offered 1954-55.

25. *Honors Course.* Theoretical and/or experimental work in mechanics, thermodynamics, or nuclear physics. MR. ROOPE

Omitted 1953-54.

26. *Honors Course.* Theoretical and/or experimental work in optics, electronics, or spectroscopy. MR. GUNTER

Omitted 1953-54.

217. *Nuclear Physics.* MR. ROOPE

Omitted 1953-54.

3. PRIMARILY FOR GRADUATE STUDENTS

31. *Theoretical Physics.* Double course. MR. ROOPE

300. *Research in Experimental Physics.* THE STAFF

301. *Research in Theoretical Physics.* THE STAFF

Department of Psychology

PROFESSOR WERNER, PROFESSOR AFFILIATE WEINREB, ASSOCIATE PROFESSOR BELL, ASSOCIATE PROFESSOR DEMBO, ASSOCIATE PROFESSOR LAZARUS, ASSOCIATE PROFESSOR WAPNER, ASSOCIATE PROFESSOR AFFILIATE MEYER-TAYLOR, ASSOCIATE PROFESSOR AFFILIATE PHILLIPS, ASSISTANT PROFESSOR GWINN, INSTRUCTOR AFFILIATE LEVENTHAL, LECTURER KAPLAN, VISITING LECTURER HAWKES, VISITING LECTURER KELLEY, VISITING LECTURER KOGAN, PSYCHIATRIC CONSULTANT CARTER

The Psychological laboratories at Clark University were established by G. Stanley Hall immediately after the founding of the University, and constituted one of the first adequately appointed laboratories in this field in America. These laboratories increased rapidly in size and in research possibilities for experimental psychology, and have been remodeled in accordance with present needs. From the outset this research emphasis on experimental psychology was supplemented by work in child study, educational psychology, and mental hygiene. In recent years a comprehensive training program in clinical psychology has been added. Broad integrated training in psychology is stressed, with special concentration being provided in the areas of child and genetic, clinical, and general experimental psychology.

UNDERGRADUATE WORK

The undergraduate curriculum is designed to meet the needs of: (1) students majoring in psychology; (2) majors in related fields; (3) students wishing an orientation to the field of psychology for general cultural development.

Psychology 11a and 11b are prerequisite to all subsequent courses, with the exception of Psychology 190b. Majors are required to take Psychology 11a, 11b, and Psychology 212. Students preparing for graduate work should obtain a reading knowledge of French and German.

GRADUATE WORK

Work is offered in the department leading to the degrees of Master of Arts and Doctor of Philosophy. In order to be admitted to the department for a graduate degree, the applicant must have a bachelor's degree based upon a distinguished college record. Where the department feels that a student lacks the necessary undergraduate preparation in psychology and related fields, specific courses of study will be prescribed.

THE DEGREE OF MASTER OF ARTS. To qualify for the degree of Master of Arts in psychology the student must demonstrate competence in representative areas of psychology. The customary program is five courses, including experimental psychology, statistical methods, and three additional courses supplemented by the writing of a thesis in the area of special interest.

THE DEGREE OF DOCTOR OF PHILOSOPHY. Only students who give evidence of high scholastic attainments will be encouraged to proceed to the degree of Doctor of Philosophy. The obtaining of a Master of Arts degree does not automatically admit the student to the doctoral program. The general requirements for the doctor's degree, other than those for specialization in clinical psychology, include the following. The student is required to pass with distinction five courses during the first year of graduate study and a minimum of two courses during the second year of study. At the end of the second year he is required to demonstrate his competence in psychology by passing with distinction preliminary examinations in the field of psychology as a whole and in an area of specialization. At the present time examinations in the general field include history and systems of psychology, experimental psychology, genetic psychology, learning, normal and abnormal personality, and statistics. In addition, the student is required to demonstrate his ability to conduct independent research as evidenced by the presentation of an acceptable thesis. For formal thesis requirements and language requirements, see the general statement concerning advanced degrees in the section of this catalog headed "The Graduate School". At a final oral examination a student is required to defend his thesis and to show his competence in the general field of psychology and in his special area of concentration.

THE PROGRAM IN CLINICAL PSYCHOLOGY. The department offers a four-year program in clinical psychology leading to the degree of Doctor of Philosophy. For this degree the same standards of proficiency in the general field of psychology as mentioned above apply.

In addition the student will be required to demonstrate mastery of the use of clinical methods. Provision is made for a wide variety of practical experiences in cooperating institutions, clinics, and agencies. V. A. and U. S. Public Health Service Training Stipends are available for outstanding students.

A minimum of one year of internship, or its equivalent, is included in this four-year program. Among the institutions and agencies cooperating in providing practicum and research facilities are: Bedford V. A. Hospital; Boston State Hospital; Boston V. A. Hospital; Boston V. A. Mental Hygiene Clinic; Brockton V. A. Hospital; Children's Medical Center, Boston; Clark University Psychological Clinic; Hartford V. A. Mental Hygiene Clinic; Judge Baker Guidance Center, Boston; Newington V. A. Mental Hygiene Clinic; Northampton V. A. Hospital; Providence V. A. Mental Hygiene Clinic; Worcester Boys' Club; Worcester Girls' Club; Worcester Youth Guidance Center; Worcester State Hospital; and certain schools. Internships may be arranged in other selected hospitals and clinics.

During the first two years the student will include in his program courses basic to a thorough understanding of psychology as well as specialized courses in clinical psychology. He will be required to take the regular preliminary examinations; in this case the examination in the area of specialization will be in clinical psychology.

Research for the dissertation should normally be started during the year of internship and be completed during the fourth year at the University.

Courses in Psychology

During the academic year 1953-54 the following courses in psychology were given: 11, 172a, 190b, 198a, 199b, 200b, 203b, 204a, 209, 212, 300a, 301, 302b, 303a, 303b, 305, 307, 315a, 316, 318, 320, 330b, 331, 333, 334, 335b, 339, 349a, 349b, 350, 361, 363, 390.

1. PRIMARILY FOR UNDERGRADUATES

11a. *General Psychology.* An introduction to the principles of human behavior.

Half course. First semester. Tu. Th., 9; M., 1. Mr. Wapner

11b. *General Psychology.*
Prerequisite: Psychology 11a.
Half course. Second semester. Tu. Th., 9; M., 1. Mr. Wapner

172a. *Personality Development.* This course will deal with a number of the determinants of personality formation including constitutional determinants and culturally imposed factors. Current theories of personality development will be discussed and applied to the study of personality.
Half course. First semester. Tu. Th., 2-3:15. Mr. Bell

190b. *Applied and Industrial Psychology.* The application of psychological techniques to the problems of business and industry.
Prerequisite: Psychology 11a.
Half course. Second semester. M. W., 3:20-4:35. Mr. Hawkes

198a. *Physiological Psychology.* Physiological methods of investigating the mechanisms underlying psychological processes.
Half course. First semester. W. F., 11-12:15. Mr. Gwinn

199b. *Learning and Motivation.* The role of learning and motivation in behavior.
Half course. Second semester. W. F., 11-12:15. Mr. Gwinn

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

200b. *Social Psychology.* The role of social factors in the behavior of individuals and of groups. Among the topics to be discussed are suggestion, attitudes, rumor, prejudice, leadership and public opinion polls.
Half course. Second semester. Tu. Th., 11-12:15. Mr. Lazarus

203b. *The Abnormal Personality.* The course will be devoted to a study of the development of the abnormal personality and a survey of the major types of abnormal behavior.
Prerequisite: Psychology 172a.
Half course. Second semester. Tu. Th., 2-3:15. Mr. Bell

204a. *Personality Evaluation.* The purpose of this course is to provide an understanding of the principles, problems, and procedures of personality evaluation. It will include consideration of the nature of personality and its measurement, intelligence and its defects, and diagnostic testing designed to explore personality dynamics.
Half course. First semester. Tu. Th., 11-12:15. Mr. Lazarus

209. *Developmental and Child Psychology.* A survey of the principles of development and the problems of child psychology.

Prerequisite: Psychology 11 plus one additional semester course in psychology.

Through the year. W. F., 9. A third hour to be arranged.
MR. WERNER

212. *Experimental Psychology.* A general survey of experimental psychology with the aim of acquainting the student with scientific methods and laboratory technique.

Through the year. Lecture: Tu. Th., 10.
Laboratory: W., 2-5. MR. WAPNER

3. PRIMARILY FOR GRADUATE STUDENTS

300. *Genetic Psychology.* A seminar on the basic principles of genetic psychology.

Given in the first semester only in 1953-54. F., 2-4. MR. WERNER

301. *Clinical Methodology.* An introduction to problems and methods.

Through the year. Tu., 7:30-9:30 P.M. MR. LEVENTHAL

302b. *Advanced Psychological Diagnosis of Children.* Special problems and case studies.

Half course. Second semester. Hours to be arranged.
MRS. MEYER-TAYLOR

303a. *Diagnosis of Personality* (Advanced Course).
Prerequisite: Psychology 301.
First semester. W., 9 - 11. MR. BELL

303b. *Theories of Psychotherapy.* A comparative study of basic theories of psychotherapy.

Prerequisite: Psychology 303a.
Second semester. W., 10 - 12. MR. BELL

305. *Advanced Experimental Psychology.* A study of experimental methodology and techniques. In the first semester attention will be given to problems of perception, and, in the second semester, to memory, concept formation and reasoning.

Through the year. Lecture: Th., 9 - 11. MR. WERNER
Laboratory: To be arranged. MR. WERNER AND MR. WAPNER

307. *Participation in Psychological Clinic.*
Through the year. F., 9:30 - 11:30. MR. BELL, MR. F. CARTER, AND MR. LAZARUS

Education 313. Statistical Methods. The purpose of this course will be to give an understanding of and practice in the statistical methods most valuable in psychological research.
Through the year. Tu., 4 - 6. Mr. Jones

315a. *Experimental Methodology and Design.* A consideration of general experimental methodology in psychology with special reference to the problems of research planning and experimental design. Various fields will be drawn upon for illustrations.
First semester. W., 1 - 3. Mr. Wapner

316. *Deviant Behavior in Children.* Theories relevant to the understanding of behavior problems in children.
Through the year. Th., 8 - 10 P.M. Mr. Weinreb

318. *Dynamics of Personality.* Emphasis will be placed on the dynamics common to both normal and abnormal manifestations of personality defenses. The first part of the course will consist of a consideration of normal personality development and personality theory. The latter part will be devoted to a survey of the main types of abnormal behavior, including psychoses, psychoneuroses, psychosomatic disorders, character disorders, hypnosis, and allied phenomena.
Through the year. Th., 1 - 3. Mr. Lazarus

320. *Interdisciplinary Seminar in Language Behavior.*
Through the year. Hours to be arranged.
Mr. Werner, Mr. W. H. Carter, Mr. Reid

330a. *Psychology of Language Behavior.* A seminar on basic problems pertinent to the experimental study of language.
Half course. First semester. Mr. Werner
Omitted 1953-54.

330b. *Genetic Psychology of Symbolic Behavior.* A seminar on the basic aspects of symbolic behavior in humans.
Half course. Second semester. F., 2 - 4. Mr. Kaplan

331. *The Psychology of Learning.* Theoretical viewpoints and experiments in the field of learning.
Through the year. Tu. 1 - 3. Mr. Gwinn

333. *Personality Evaluation.* An advanced course in the integration of methods of personality diagnosis and case history materials.
Through the year. F., 4 - 6. Mr. Phillips

334. *Advanced Problems in Social Psychology.* A seminar on emotional and value aspects of interpersonal relationships. Emphasis is placed on experimental methodology and on the development of theoretical concepts.
Through the year. Th., 7 - 9 P.M. MISS DEMBO

335b. *Social Psychology.* Topics to be considered in this course are: Opinion Research; Propaganda, Rumor; Group Dynamics; Orientation and Theoretical Problems in Social Psychology.
Second semester. Hours to be arranged. MR. KELLEY

339. *History and Systems of Psychology.* The historical development of psychological methods, concepts and theories.
Through the year. W, 3:15-5:15. MR. GWINN

349. *Clinical Research Methodology.* A survey of current research methods in clinical psychology.
First semester. By arrangement. MR. PHILLIPS
Second semester. By arrangement. MR. BELL AND MR. LAZARUS

350. *Research in Psychology.* Individual direction of students in their research projects. STAFF OF THE DEPARTMENT

390. *Departmental Colloquium.*
Through the year. W., 7:45 P.M.
THE STAFF, GRADUATE STUDENTS AND VISITING LECTURERS

FIELD WORK COURSES IN CLINICAL PSYCHOLOGY

(Hours to be arranged)

361. *Required in Conjunction with 301.* MR. LEVENTHAL

363. *Required in Conjunction with 303.* MR. BELL
Through the year.

NON-CREDIT WORKSHOPS

1. *Advanced Workshop in Psychological Statistics.*
Selected problems in small sample theory.
Through the year. To be arranged. MR. KOGAN

2. *Workshops in Clinical Methodology.* VISITING LECTURERS

3. *Lectures on Physiological and Medical Aspects of Mind-Body Relationships.*
Omitted 1953-54. WORCESTER STATE HOSPITAL STAFF MEMBERS AND VISITING LECTURERS

Department of Romance Languages

ASSOCIATE PROFESSOR REID, ASSOCIATE PROFESSOR NICOL, ASSISTANT PROFESSOR KING, MR. BARBERA, MR. HARRELL

Courses offered in the languages and literatures of France, Spain, and Spanish America have been planned to provide:

1) an adequate foundation for graduate study or teaching either French or Spanish, or both;
2) a thorough reading knowledge of both languages, essential for carrying on advanced study in natural sciences, social sciences, and the humanities, and for fulfilling the language requirement for the degree of Bachelor of Arts;
3) a competent speaking knowledge of both languages.

A major in Romance languages must comprise:

1) four full courses to be chosen from the following:
    French 13, 114b, 123a, 125, 126, 151a, 152a, 153b, 154b.
    Spanish 13, 114.
    Romance languages 124b.
2) French 113 or the equivalent.
3) General Education 14, or the equivalent, normally to be completed by the end of the sophomore year.
4) at least one course, to be approved by the department, in non-Romance literature.
5) a satisfactory record in the senior comprehensive examination.

Students majoring in Romance languages are expected to acquire a thorough knowledge of either French or Spanish and are urged to acquire a competent knowledge of the other, both in language and in literature.

If at least two units of elementary Latin or elementary Greek have not been accepted for admission to college, a Romance language major must satisfy the classics requirement as prescribed under the heading "Major" in the statement of requirements for the degree of Bachelor of Arts.

Students intending to major in Romance languages should consult Mr. Reid.

The department wishes to encourage any students who are interested in combining work in French or Spanish with work in another field to consult Mr. Reid regarding the possibilities for interdepartmental major programs.

A program leading to a degree "with honors in Romance languages" is available to qualified upperclassmen.

Courses in French

During the academic year 1953-54 the following courses in French were given: 11, 12, 13A, 14, 113, 114b and 125.

1. PRIMARILY FOR UNDERGRADUATES

11. *Elementary.* For beginners. The elements of grammar and pronunciation; carefully graded reading; exercises in speaking and writing simple French.

Indivisible course.
Open to freshmen.
Through the year. M. W. F., 8 and 10. MR. HARRELL

12. *Intermediate.* Review of grammar, exercises in composition and pronunciation, intensive and extensive reading in a variety of modern texts.

Prerequisite: French 11 or the equivalent, to be determined by a placement test.
Indivisible course.
Open to freshmen.
Through the year. M. W. F., 9; Tu. Th., 9; M., 1. MR. KING

NOTE: Courses 13 and 14, described below, are "third-year" language courses within the meaning of the foreign language requirement for the degree of Bachelor of Arts. Course 14 is offered to meet the needs of the general student; course 13 is designed primarily for the student with particular interest and aptitude for language study, who intends to take subsequent courses in literature.

13. *Oral and Written French.* Third-year course. This course is conducted largely in French. Admission is subject to the approval of the instructor in each semester. The normal sequence is 13 A during the spring semester of one year and 13 B during the following fall semester. The two parts of the course are organized as follows:

A. Analytical study and practice of the elements of communication in French: basic conversational patterns; the sound, rhythm and tone patterns of French pronunciation; advanced review of grammar; exercises in written expression.

Prerequisite: Grade of B— or higher in French 12, or equivalent skill in the language, to be determined by a placement test.

Open to freshmen.

M. F., 9; laboratory W., 2-4. MR. REID

Offered in the spring semester in alternate years.

To be omitted 1954-55.

B. Advanced practice of communication in French. Composition, oral reports, classroom discussion.

Not open to freshmen. MR. NICOL

Offered in the fall semester in alternate years.

Omitted 1953-54.

14. *Readings in French Literature.* Third-year course. The emphasis in the first semester is on reading as communication, with analysis and practice of the techniques of effective reading in French. The emphasis in the second semester is on an understanding of the contribution of a number of French works of universal importance and appeal.

Prerequisite: French 12 or the equivalent, to be determined by a placement test.

Open to freshmen.

Through the year. M. W. F., 9 and 10.

MR. REID, *first semester*
MR. NICOL, *second semester*

113. *Introduction to French Civilization.* A selective survey of the history, art, literature and music of France, from the Middle Ages to the present time. An elementary reading knowledge of French is desirable but not required. Admission is subject to the approval of the instructor.

French 113 may be counted in fulfillment of the general requirement in art, music and literature, but not toward fulfillment of the requirement in foreign language.

Some meetings are held in the Worcester Art Museum.

Through the year. Tu. Th., 11-12:15. MR. NICOL

Offered in alternate years. To be omitted 1954-55.

114b. *General View of French Literature.* An interpretation of the main currents of French literature. Each period is studied by concentrating attention on a limited number of works and authors best bringing to focus the characteristics of the period.

Prerequisite: Grade of B– or higher in French 13 or 14 or the equivalent.

Half course. Second semester. M. W. F., 10. Mr. King

125. *The Novel.* Detailed study of prose literature as exemplified in selected works characteristic of different periods from the Middle Ages to the present. Some attention is given to the essay, the short story, memoirs, maxims and letters as well as the novel. Conducted in French.

Prerequisite: Grade of B– or higher in French 114b or the equivalent.

Through the year. Tu. Th., 8:30-9:45. Mr. Nicol

To be omitted after 1953-54.

126. *Poetry and Drama.* Intensive study of a limited number of poets and dramatists who best reflect both the technique and spirit of various periods from the Middle Ages to the present. Conducted in French.

Prerequisite: Grade of B– or higher in French 114b or the equivalent.

Through the year. Mr. Nicol

Omitted 1953-54 and thereafter.

Beginning with the academic year 1954-55 the two preceding courses, 125 (The Novel) and 126 (Poetry and Drama), will be replaced by a group of four half-courses, 151a (The Middle Ages and the Renaissance), 152a (Classicism), 153b (Romanticism and Realism) and 154b (The Modern Period).

These courses are so planned that a chronological order is not necessary; they may be taken in any order that suits the student's convenience. Each of them presupposes a certain historical and analytical perspective such as is provided by French 114.

In all of these courses attention is given to the social forces and movements underlying the attitudes whose literary manifestations are under study.

123a. *Advanced Language.* Advanced composition and special study of grammatical topics.

Prerequisite: Grade of B– or higher in French 13B. Romance Languages 124a is desirable but not required.

Half course. First semester. M. F., 10; laboratory W., 10-11:50. Mr. Nicol

Omitted in 1953-54. Offered when the demand warrants.

Romance Languages 124b. Comparative French and Spanish Phonetics. The elements of general phonetics. A detailed study of the pronunciation of French and Spanish. A required course for majors who wish to be recommended for teaching either language.

Prerequisite: Grade of B— or higher in French 13A or Spanish 13; elementary knowledge of the other language.

Half course. Second semester. MR. REID

Offered in alternate years. Omitted 1953-54.

The following four courses have not been offered previously. Courses 152a and 153b will be offered in 1954-55; courses 151a and 154b in 1955-56. Thereafter the two sets of courses will be offered in alternate years.

151a. *The Middle Ages and the Renaissance.* Conducted in French.

Prerequisite: Grade of B— or higher in French 114, or the equivalent.

Half course. First semester.

New course. To be offered in alternate years beginning 1955-56.

152a. *Classicism.* A study of outstanding literary works, drawn principally but not exclusively from the age of Louis XIV, to illustrate the esthetic and intellectual nature of the classical point of view as it persists in the French thought of various periods. Conducted in French.

Prerequisite: Grade of B— or higher in French 114, or the equivalent.

Half course. First semester. W. F., 11-12:15. MR. NICOL

New course. To be offered in alternate years beginning 1954-55.

153b. *Romanticism and Realism.* A study of outstanding literary works, drawn principally but not exclusively from the late 18th and the 19th Centuries, to illustrate the esthetic and intellectual climates and the literary techniques generally described as romantic or realistic. Conducted in French.

Prerequisite: Grade of B— or higher in French 114, or the equivalent.

Half course. Second semester. W. F., 11-12:15. MR. NICOL

New course. To be offered in alternate years beginning 1954-55.

154b. *The Modern Period.* Conducted in French.

Prerequisite: Grade of B— or higher in French 114, or the equivalent.

Half course. Second semester.

New course. To be offered in alternate years beginning 1955-56.

Courses in Spanish

During the academic year 1953-54 the following courses were given: 11, 12, 14, and 114.

1. PRIMARILY FOR UNDERGRADUATES

11. *Elementary.* For beginners. The elements of grammar and pronunciation; carefully graded reading; exercises in speaking and writing.

Indivisible course.

Open to freshmen.

Through the year. M. W. F., 9: Tu. Th., 8; F., 2. Mr. Barbera

12. *Intermediate.* Review of grammar, exercises in composition and pronunciation, intensive and extensive reading of texts dealing with Spain and Spanish America.

Prerequisite: Spanish 11, or the equivalent, to be determined by a placement test.

Indivisible course.

Open to freshmen.

Through the year. W. F., 11; M., 1: W. F., 11; M., 2.

Mr. King and Mr. Harrell, *first semester*
Mr. King and Mr. Barbera, *second semester*

13. *Third-Year Oral and Written Spanish.* A rapid intensive review of grammar; the elements of phonetics; exercises in composition and pronunciation; conversational practice. Course 13 is conducted largely in Spanish.

Prerequisite: Grade of B– or higher in Spanish 12, or equivalent skill in the language, to be determined by a placement test. Admission is subject to the approval of the instructor.

Open to freshmen.

Through the year. Mr. King

Offered in alternate years. Omitted 1953-54.

14. *Readings in Spanish and Spanish-American Literature.* Third-year course. The first semester is devoted to Spanish American works, the second semester to Spanish. The emphasis in the first semester is on reading as communication, with analysis and practice of the techniques of effective reading in Spanish. The emphasis in the second semester is on the understanding of a number of major works of the literature of Spain.

Prerequisite: Spanish 12, or the equivalent, to be determined by a placement test.

Open to freshmen.

Through the year. M. W. F., 10. Mr. Barbera, *first semester*
Mr. Reid, *second semester*

114. *The Literature of Spain.* A general view of Spanish literature with emphasis on the study of the origins and development of the novel and drama, culminating in the masterworks of the nineteenth century. Necessary attention is given to political and cultural background.

Prerequisite: Grade of B– or higher in Spanish 13 or 14 or the equivalent.

Through the year. Tu. Th., 2-3:15. Mr. Barbera

Offered in alternate years. To be omitted 1954-55.

Romance Languages 124b. Comparative French and Spanish Phonetics. The elements of general phonetics. A detailed study of the pronunciation of French and Spanish. A required course for majors who wish to be recommended for teaching either language.

Prerequisite: Grade of B– or higher in French 13A, or Spanish 13; elementary knowledge of the other language.

Half course. Second semester. Mr. Reid

Offered in alternate years. Omitted 1953-54.

Russian

These courses are offered to enable students to acquire a reading knowledge of the language.

Russian 11. Elementary Russian. Basic grammar and vocabulary.
Through the year. M. W. F., 10. Mr. Raeff

Russian 12. Intermediate Russian. Advanced grammar. Reading and conversation.
Through the year. W. F., 3-4:15. Mr. Raeff

Russian 13. Advanced Russian. Intensive reading of contemporary and literary sources.
Through the year. Mr. Raeff
Not given 1953-54. To be offered 1954-55.

Sociology

A description of the offerings in Sociology will be found in the announcement of the Department of Economics and Sociology.

Spanish

A description of the offerings in Spanish will be found in the announcement of the Department of Romance Languages.

The Summer School

June 28 to August 11, 1954

A six-week summer school was established in 1921, primarily to serve teachers who were employed during the regular academic year. Its organization and its offerings were relatively independent of the general university program.

The national emergency beginning in 1941 made it desirable to provide opportunities for college students to complete their requirements for a bachelor's degree in as short a time as possible. Accordingly the summer school was lengthened to twelve weeks and made an integral part of the college program. With the passing of the emergency and with the demands for acceleration decreasing, the twelve-week summer school was discontinued at the close of the 1949 season.

For the summer of 1950 a return was made to a summer session of approximately six weeks' duration.

In 1951 a six-week session was again offered and when it appeared possible that another crisis might be at hand this was supplemented by an independent twelve-week session beginning at the same time.

Beginning with 1952 a return was made to the shorter term of approximately six and one-half weeks, and the same plan will be followed in 1954.

Work done in the summer term may be counted toward the fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Business Administration, Master of Arts, and Doctor of Philosophy. A graduate student should secure the explicit approval of his major department for any program undertaken during the summer term.

Unless otherwise announced, subjects are presented in half courses. A half course, equivalent to three semester hours, involves five seventy-minute periods per week, or their equivalent, throughout six weeks. A normal program is two subjects carried concurrently.

Tuition charges for a normal program of two subjects are $100.00 for the six-week term. The charge for a single subject is $50.00.

Dormitory accommodations for both men and women are available at reasonable rates.

The Summer School Bulletin contains descriptions of the various courses to be offered and may be had upon application to THE DEAN OF THE COLLEGE, CLARK UNIVERSITY, WORCESTER 10, MASSACHUSETTS.

THE SUMMER SCHOOL STAFF, 1954

HOWARD B. JEFFERSON, President of Clark University

HOMER P. LITTLE, Director of the Summer School
Dean of the Undergraduate Colleges, Clark University

KARL J. ARNDT, German
Chairman of the Department of German, Clark University

ROBERT N. BECK, PH.D., Education
Assistant Professor of Philosophy, Clark University

JOHN L. BRADLEY, PH.D., English
Assistant Professor of English, Clark University

GUY H. BURNHAM, M.A., Geography
Instructor in Geography, Clark University

ROBERT F. CAMPBELL, PH.D., History
Associate Professor of American History, Clark University

PAUL D. COLLIER, Education
Co-director, Division of Instructional Service, State Department of Education, Hartford, Connecticut

RAYMOND F. COOK, M.ED., Education
Principal of Emerson Public School, Newton, Mass.

VERNON JONES, PH.D., Education
Chairman of the Department of Education, Clark University

FREDERICK W. KILLIAN, LL.B., Sociology
Associate Professor of Sociology, Clark University

DAVID LANE, PH.D., Education
Assistant Professor of Education, Clark University

Dwight E. Lee, Ph.D., History
Professor of Modern European History, Clark University

John H. Mackenzie, M.A., English
Assistant Professor of English, Worcester Polytechnic Institute

Rudolph F. Nunnemacher, Ph.D., Biology
Associate Professor of Biology, Clark University

Wilbur J. Rook, M.A., Education
Principal of Warren Public School, Wellesley, Mass.

Earl B. Shaw, Ph.D., Geography
Professor of Geography, State Teachers College, Worcester, Mass.

Samuel Van Valkenburg, Ph.D., Geography
Director of the Graduate School of Geography, Clark University

Courses Offered in the Summer School

Courses are identified by number. Any particular course bears the same identifying number whether it is offered during the regular academic year or in the summer term. Courses primarily for undergraduates have numbers beginning with the numeral "1," those for advanced undergraduates and graduate students, with the numeral "2," and those primarily for graduate students, with the numeral "3."

Courses Given in 1953

ECONOMICS

SS 101.	*The American Economic System.*	Mr. Melder
SS 201.	*Basic Economic Issues Confronting the American People.*	Mr. Melder

EDUCATION

SS 210b.	*Education for Citizenship: Methods and Materials.*	Mr. Jones
SS 212.	*Guidance in Secondary Schools.*	Mr. Lane
SS 214a.	*Educational Psychology: Student Evaluation.*	Mr. Jones
SS 260.	*Methods and Materials in Elementary Education.*	Mr. Shepherd
SS 261.	*The Curriculum Development in Elementary Education.*	Mr. Shepherd

SS 262.	*Mental Hygiene in Teaching and Guidance: Community Resources in Mental Hygiene.*	Mr. Lane

ENGLISH

SS 12.	*Public Speaking.*	Mr. Moore
SS 117.	*Romantic Poetry.*	Mr. Moore

FRENCH

SS 12.	*Intermediate French.* (Double course)	Mr. MacQueen

GEOGRAPHY

SS 26a.	*Economic Geography.*	Mr. Warman
SS 201b.	*Political Geography.*	Mr. Van Valkenburg
SS 285b.	*Geography of Asia.*	Mr. Van Valkenburg
SS 291.	*Cartography.*	Mr. Burnham

GERMAN

SS 11.	*Introductory German.* (Double course)	Mr. Beerbaum
SS 12.	*Intermediate German.* (Double course)	Mr. Edwards

GOVERNMENT

SS 251.	*American Political Parties.*	Mr. Cohen

HISTORY

SS 230b.	*U. S. Social and Intellectual History Since 1865.*	Mr. Campbell

SOCIOLOGY

SS 12b.	*Introduction to Cultural Anthropology.*	Mr. Killian
SS 21a.	*The Family and Society.*	Mr. Killian

Courses to be Offered in 1954

BIOLOGY

SS 17.	*Animal Ecology.*	Mr. Nunnemacher

EDUCATION

SS 210.	*Psychological Approach to Citizenship Development.*	Mr. Jones

SS 210D.	*Education for Citizenship.*	Mr. Jones
SS 212.	*Principles and Practices of Guidance.*	Mr. Lane
SS 222D.	*School Administration and Supervision.*	Mr. Collier
SS 259.	*Methods and Materials in Elementary Education.*	Messrs. Cook and Rook
SS 262.	*The Curriculum Development in Elementary Education.*	Messrs. Cook and Rook
SS 290b.	*Philosophy of Education.*	Mr. Beck

ENGLISH

SS 12.	*Public Speaking.*	Mr. Mackenzie
SS 126.	*Modern Drama.*	Mr. Bradley
SS 142.	*The Modern Novel.*	Mr. Bradley

GEOGRAPHY

SS 191.	*Cartography.*	Mr. Burnham
SS 26.	*Principles of Economic Geography.*	Mr. Shaw
SS 27.	*Principles of Human Geography.*	Mr. Shaw
SS 201.	*Elements of Political Geography.*	Mr. Van Valkenburg

GERMAN

SS 11.	*Introductory German.*	Mr. Arndt

HISTORY

SS 201.	*New Viewpoints in History.*	Mr. Lee
SS 233.	*The American Tradition.*	Mr. Campbell
SS 235.	*The United States in the Twentieth Century.*	Mr. Campbell

SOCIOLOGY

SS 11a.	*Principles of Sociology.*	Mr. Killian
SS 27.	*The Family and the School in the Community.*	Mr. Killian

The Evening College

The EVENING COLLEGE in Clark University was established by the Trustees on the recommendation of the Faculty in September 1953. In respect to both educational policies and financial administration, the Evening College is independent of the older undergraduate colleges, (the Men's College and the Women's College). The administration of the Evening College is in the hands of the Director, Rudolph F. Nunnemacher and the Evening College Board. For 1953-54 the Board consists of H. Donaldson Jordan, Eugene J. Kelley, Frederick W. Killian, Arthur E. Martell, J. Richard Reid and Seymour Wapner. The teaching staff has been selected primarily from the staff of the University.

The educational offerings, which parallel those of the older colleges, are available to the community in the late afternoon and in the evening. They provide the basis for programs of study leading to the degrees of Bachelor of Science in General Studies and Bachelor of Science in Business Administration. The requirements for these degrees are in general similar to the requirements for the degrees of Bachelor of Arts and Bachelor of Business Administration respectively but permit a somewhat greater latitude in the choice of courses.

Admission to the Evening College is open to high school graduates and to others who give evidence of maturity and seriousness of purpose. Progress toward a degree is contingent on satisfactory performance in Evening College courses. In general a full program of courses, three courses carried simultaneously, will enable a student to complete the requirements for a degree in seven or eight years.

The service of the Evening College to the community is not restricted to candidates for a degree. Those who may wish to broaden their intellectual horizons, or to extend their understanding of particular subjects, or to secure additional training in fields related to their daily occupations are welcomed as students. They will find among the courses offered a great variety of subject matter—and among the instructors, complete sympathy with their purposes.

In cooperation with Boston University the Evening College offers a group of courses in nursing—primarily for graduate nurses —which may be credited toward the degree of Bachelor of Science in Nursing at Boston University.

STAFF OF THE EVENING COLLEGE, 1953-54

HOWARD B. JEFFERSON, President of Clark University

RUDOLPH F. NUNNEMACHER, Acting Director of the Evening College
Associate Professor of Biology, Clark University

MISS HELEN G. AGBAY, M.A.; Spanish
Teacher, Junior High School, Worcester, Massachusetts

MRS. BEATRICE ALLEN, M.A.; Nursing Education
Instructor, School of Nursing, Boston University

ROBERT N. BECK, PH.D.; Education and Philosophy
Assistant Professor of Philosophy, Clark University

JOHN L. BRADLEY, PH.D.; English
Assistant Professor of English, Clark University

CHARLES T. BUMER, PH.D.; Mathematics
Professor of Mathematics, Clark University

ROBERT F. CAMPBELL, PH.D.; History
Associate Professor of American History, Clark University

CLIFFORD F. GREEN, A.A.G.O.; Music
Director of Music, First Unitarian Church, Worcester, Massachusetts

MRS. JESSIE GREEN, B.S.; Nursing Education
Instructor, School of Nursing, Boston University

GEORGE E. HARGEST, M.B.A.; Business Administration
Associate Professor of Economics and Business Administration, Clark University

EDWARD H. HASTINGS, M.A.; English
Formerly Instructor in English, Clark University

SHERMAN S. HAYDEN, PH.D.; History
Associate Professor of International Relations, Clark University

ROBERT S. ILLINGWORTH, M.A., ED.M.; English
Professor of Speech and Drama, Clark University

ARMEN JEREJIAN, D. ès Sc. Péd., Agrégé; Armenian
Lecturer in Armenian, School of General Studies, Columbia University

EUGENE J. KELLEY, M.B.A.; Business Administration
Assistant Professor of Economics and Business Administration, Clark University

FREDERICK W. KILLIAN, LL.B.; Sociology and Business Administration
Associate Professor of Sociology, Clark University

RICHARD S. LAZARUS, PH.D.; Psychology
Associate Professor of Psychology, Clark University

SU JAN LEE, LL.D.; Chinese
Formerly Professor in the University of Peking

THEODORE LEVENTHAL, PH.D.; Psychology
Instructor Affiliate in Psychology, Clark University

F. EUGENE MELDER, PH.D.; Business Administration
Associate Professor of Economics, Clark University

JOSEPH A. NORDSTROM, M.S.; Business Administration
Assistant Professor of Business Administration, Clark University

WALTER A. OLSON, A.B.; Sociology
Executive Secretary, Family Service of Worcester

MARK RAEFF, PH.D.; Russian
Assistant Professor of Russian History and Language, Clark University

SHELDON SCHAFFER, M.A.; Economics
Assistant Professor of Economics, Clark University

HAROLD STANZLER, M.S.; Business Administration
Personnel Manager, Collyer Insulated Wire Company, Pawtucket, Rhode Island

MISS ELIZABETH ULRICH, M.A.; Nursing Education
Educational Director, Veterans Administration Hospital, Rutland, Massachusetts

SAMUEL VAN VALKENBURG, PH.D.; Geography
Professor of Geography, Clark University

SEYMOUR WAPNER, PH.D.; Psychology
Associate Professor of Psychology, Clark University

JOSEPH WEINREB, M.D.; Psychology
Professor Affiliate in Psychology, Clark University. Director, Child Guidance Clinic, Worcester, Massachusetts

Courses Given in the Evening College, 1953-54

The numerals 1 and/or 2 following the title of a course indicate the semester or semesters in which the course has been given.

LANGUAGES, LITERATURE AND FINE ARTS

Armenian E 1. *Armenian Language, Elementary* (2) MR. JEREJIAN

Chinese E 2. *The Development of Chinese Culture in its Relation to Her Major Art* (2) MR. LEE, SU JAN

English E 11. *English Composition and Literature* (1, 2) MR. BRADLEY AND MR. HASTINGS

English E 12. *Public Speaking and Human Relations* (1, 2) MR. ILLINGWORTH

English E 123. *Modern Literature* (2) MR. HASTINGS

Music E 16. *Great Composers and Their Works* (2) MR. GREEN

Spanish E 100. *Beginning Spanish* (1, 2) MISS AGBAY

SOCIAL SCIENCES

Armenian E 115. *History and Culture of Armenia and the Near East in the Period of Antiquity* (2) MR. JEREJIAN

Economics E 111. *Fundamentals of the American Economy* (1, 2) MR. SCHAFFER

Education E 290. *Introduction to the Philosophy of Education* (2) MR. BECK

Geography E 201. *Problem Areas of the World* (1) MR. VAN VALKENBURG

History E 235. *The United States in the Twentieth Century* (1) MR. CAMPBELL

History E 24. *The Course of World Politics* (1) MR. HAYDEN

History E 136. *Politics in America* (2) MR. CAMPBELL

Philosophy E 13. *Introduction to Philosophy through Ethics* (1) MR. BECK

Psychology E 111.	*General Psychology.* A semester course (1, 2)	Mr. Wapner
Psychology E 170.	*Introduction to Child Psychology* (2)	Mr. Leventhal
Psychology E 103.	*Abnormal Psychology* (2)	Mr Lazarus
Psychology E 15.	*Dynamics of Interpersonal Relationships within a Group.* A non-credit course (2)	Mr. Weinreb
Russian E 17.	*Russian Civilization—an Historical Introduction to Soviet Russia* (2)	Mr. Raeff
Sociology E 111.	*Foundations of Human Behavior* (1)	Mr. Killian
Sociology E 24.	*Community Organization and Resources* (2)	Mr. Olson

SCIENCE AND MATHEMATICS

Mathematics E 216.	*Functions of a Complex Variable* (2)	Mr. Bumer

BUSINESS ADMINISTRATION

B.A., E 117.	*Principles of Accounting* (1, 2)	Mr. Hargest
B.A., E 109.	*Sales Management* (2)	Mr. Kelley
B.A., E 112.	*Introduction to Personnel Management* (1, 2)	Mr. Nordstrom and Mr. Stanzler
B.A., E 113.	*Human Relations and Policymaking in Business and Industry* (2)	Mr. Killian
B.A., E 124.	*Principles of Marketing* (1)	Mr. Melder
B.A., E 182.	*Techniques of Managerial Control* (2)	Mr. Nordstrom
B.A., E 183.	*Management-Employee Relations* (1)	Mr. Melder

COURSES OFFERED BY THE BOSTON UNIVERSITY SCHOOL OF NURSING IN THE EVENING COLLEGE OF CLARK UNIVERSITY

NU-220X.	*Newer Aspects of Nutrition and Diet Therapy* (1)	Mrs. Green
NU-199X.	*Tuberculosis Nursing* (2)	Miss Ulrich
NU-400X.	*Ward Teaching* (2)	Mrs. Allen

Register and Directories

Trustees

Administration

Academic Boards and Committees

Faculty

Special Graduate School Appointments

Students — 1953-54

Degrees — 1953

Board of Trustees

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

Francis H. Dewey, Jr. (1934)	Worcester, Mass.
Robert H. Loomis (1936), President	Boston, Mass.
Frank L. Adams (1938)	Worcester, Mass.
Howard M. Booth (1939)	Worcester, Mass.
Samuel H. Dolbear (1940)	New York, N. Y.
Carl E. Wahlstrom (1942), Vice-President	Worcester, Mass.
Raymond T. Gifford (1947), Treasurer	Worcester, Mass.
John Jeppson (1948)	Worcester, Mass.
Harry C. Coley (1948)	Worcester, Mass.
Roland A. Erickson (1951), Secretary	Worcester, Mass.
Joseph C. Molder (1954)	Worcester, Mass.

ELECTED TO REPRESENT THE ALUMNI

(Four Year Term)

Eugene L. Richmond (1950)	Worcester, Mass.
Henry C. Marble (1951)	Boston, Mass.
Herbert F. Lange (1952)	Detroit, Mich.
Hugh L. Keenleyside (1953)	Larchmont, N. Y.

Administration

Office of the President

Howard B. Jefferson, President of the University
Robert P. Anderson, Assistant to the President
Irma M. Brown, Secretary to the President
Jewel A. Emory, Assistant in Public Relations

Office of the Colleges

Homer P. Little, Dean
M. Hazel Hughes, Associate Dean for Women
Eugene J. Kelley, Acting Director of the Division of Business Administration

Rudolph F. Nunnemacher, Acting Director of the Evening College

George H. Merriam, Assistant Director of Admissions

David Lane, Director of Placement and Vocational Counselor

Gladys Diliberto, Secretary to the Dean

Office of the Graduate School

Dwight E. Lee, Secretary of the Graduate Board and Secretary of the Committee on Credentials.

Samuel Van Valkenburg, Chairman of the Committee on Credentials.

Office of the Treasurer

Raymond T. Gifford, Treasurer 18 Chestnut St.,
Worcester, Mass.

Patrick V. Sheehan, Assistant Treasurer

Mary A. Hubbard, Bursar

Alice M. Currie, Assistant Bursar

Richard J. Courtney, Manager of the Bookstore

Office of the Librarian

Marion Henderson, Acting Librarian

R. Webb Noyes, Assistant Librarian

Samuel Osgood, Administrative Assistant

Office of the Registrar

Lydia P. Colby, Registrar

Office of the Medical Director

Michael B. Fox, M.D., Medical Director

Milton H. Yudell, M.D., Medical Director

Winifred Nagle, R. N., Nurse in charge of Infirmary

Office of Physical Education

Rocheleau Z. Granger, Jr., Director of Physical Education for Men

M. Hazel Hughes, Director of Physical Education for Women

Roland C. Lambert, Assistant Director of Physical Education for Men

Frances Cockrell, Assistant Director of Physical Education for Women

Office of the Alumni Association

George E. Allen, Alumni Secretary

Academic Boards and Committees

THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general education work of the university and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Sherman S. Hayden.

THE UNIVERSITY SENATE

The Senate consists of the President as chairman, and not less than six members of the Faculty appointed by the President. Its duties are to "advise the President with regard to questions of general policy and such other matters as may be laid before it by the President." It may bring appropriate matters to the attention of the Faculty, the Graduate Board and the Collegiate Board. It may recommend to the Faculty candidates for honorary degrees.

President Howard B. Jefferson, *Chairman*

Karl O. E. Anderson
Jesse L. Bullock
Charles T. Bumer
Robert S. Illingworth
Vernon Jones
Dwight E. Lee
Homer P. Little
James A. Maxwell
David Potter
Percy M. Roope
Samuel Van Valkenburg
Heinz Werner

THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division and is responsible for the nomination to the Board of Trustees of candidates for the degree of Master of Arts and of Doctor of Philosophy.

President Howard B. Jefferson, *ex officio*

John E. Bell
Jesse L. Bullock
Sherman S. Hayden
Vernon Jones
H. Donaldson Jordan
Arthur E. Martell
James A. Maxwell
F. Eugene Melder
Raymond E. Murphy
David Potter
Percy M. Roope
Samuel Van Valkenburg
Heinz Werner

Dwight E. Lee, *Secretary*

THE COLLEGE BOARD

The College Board consists of the President, the Dean of the College, and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division, subject to the control of the Faculty, and recommends to the Faculty candidates for the Bachelor of Arts and Bachelor of Business Administration degrees.

President Howard B. Jefferson, *ex officio*
Dean Homer P. Little, *ex officio*

Karl O. E. Anderson
H. Donaldson Jordan
J. Fannin King
Arthur E. Martell
John S. Stubbe

Eugene J. Kelley, *Secretary*

THE EVENING COLLEGE BOARD

The Evening College Board consists of the President, the Director of the Evening College, and six members of the Faculty, appointed by the President. It has immediate supervision, subject to the control of the Faculty, over the Evening College, and recommends to the Faculty candidates for the Bachelor of Science degrees.

President Howard B. Jefferson, *ex officio*
Rudolph F. Nunnemacher, Acting Director, *ex officio*

H. Donaldson Jordan
Eugene J. Kelley
Frederick W. Killian
Arthur E. Martell
J. Richard Reid
Seymour Wapner

THE ACADEMIC COUNCIL

The Council, established by vote of the faculty, is appointed by the President of the University subject to regulations providing for

the distribution of its membership among the various divisions and departments.

Its duties are to make recommendations regarding undergraduate educational policies, to check on the program of courses offered to undergraduates and to supervise honors work, senior surveys, and comprehensive examinations.

President Howard B. Jefferson, *ex officio*
Dean Homer P. Little, *ex officio*
Daniel Gorenstein, *Chairman*
S. P. Cowardin, III, *Secretary*
Karl J. Arndt
John H. Blair
William H. Carter
Gerson Kegeles
Richard J. Lougee
James A. Maxwell
Heinz Werner

ADMINISTRATIVE COMMITTEE FOR THE DIVISION OF BUSINESS ADMINISTRATION

President Howard B. Jefferson, *ex officio*
Eugene J. Kelley, *Chairman*
John E. Bell
George E. Hargest
Homer P. Little
James A. Maxwell
Raymond E. Murphy

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected to advise the President regarding the personnel and the organization of departments.

Dean Homer P. Little, *ex officio*
H. Donaldson Jordan
Dwight E. Lee
James A. Maxwell
J. Richard Reid
Percy M. Roope
Heinz Werner

THE LIBRARY COMMITTEE

Rudolph F. Nunnemacher, *Chairman*
Karl J. Arndt
Robert F. Campbell

ATWOOD HALL COMMITTEE

Robert P. Anderson, *Chairman*
Donald H. Letendre
James S. Edwards

THE STUDENT ACTIVITIES FUND COMMITTEE

Percy M. Roope, *Chairman*
Guy H. Burnham, *Treasurer*
George E. Hargest

Standing Committees of the Graduate Board

The President of the university is, *ex officio,* a member of all committees of the Graduate Board.

THE COMMITTEE ON CREDENTIALS

The committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to fellowships and scholarships and candidacy for graduate degrees.

Samuel Van Valkenburg, *Chairman*

Jesse L. Bullock
Vernon Jones
James A. Maxwell
Heinz Werner

Dwight E. Lee, *Secretary*

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

Karl J. Arndt, Professor of German
J. Richard Reid, Associate Professor of Romance Languages
A representative of the student's major department

Standing Committees of the College Board

The President of the university and the Dean of the college are, *ex officio,* members of all committees of the College Board.

THE COMMITTEE ON ADMISSIONS

Sherman S. Hayden
Robert S. Illingworth
George H. Merriam
David Potter

THE COMMITTEE ON ATHLETICS

David Potter, *Chairman*

M. Hazel Hughes
James A. Maxwell
Rocheleau Z. Granger, Jr.
Henry J. Warman

COMMITTEE ON SCHOLARSHIPS

Homer P. Little, *Chairman*

Charles T. Bumer
David Potter

Faculty

Listed in order of academic seniority within each rank

Howard Bonar Jefferson, Ph.D., LL.D., L.H.D.
160 Woodland St.
President and Professor of Philosophy since 1946.
A.B., Denison University, 1923; Ph.D., Yale University, 1929; LL.D., Denison University 1948, Hillsdale College, 1952; L.H.D., Colgate University, 1951.

Homer Payson Little, Ph.D. 156 Woodland St.
Dean of the College and Professor of Geology since 1922.
A.B., Williams College, 1906; Ph.D., Johns Hopkins University, 1910.

EMERITI

Benjamin Shores Merigold, Ph.D., Sc.D. 21 Maywood St.
Professor of Chemistry, Emeritus.

** George Hubbard Blakeslee, Ph.D., L.H.D., LL.D.
34 Monadnock Rd.
Professor of History and International Relations, Emeritus.

* Philip Hudson Churchman, Ph.D. 20 Institute Rd.
Professor of Romance Languages, Emeritus.

Haven Darling Brackett, Ph.D. 138 Elm St.
Professor of Greek and Latin, Emeritus.

Leroy Allston Ames, M.A. Spencer, Mass.
Professor of English Literature, Emeritus.

×× William Homer Warren, Ph.D. Fayston, Vt.
Professor of Organic Chemistry, Emeritus.

Carey Eyster Melville, A.B. 33 Vincent Ave.
Professor of Mathematics, Emeritus.

Loring Holmes Dodd, Ph.D., L.H.D. 88 Sagamore Rd.
Professor of Rhetoric, Emeritus.

Samuel J. Brandenburg, Ph.D. 9 Willard Ave.
Professor of Economics and Sociology, Emeritus.

* - Deceased, 4-14-54
* - Deceased 5-5-54

PROFESSORS

*JESSE LUNT BULLOCK, PH.D. 35 Downing St.
Professor of Chemistry and Director of the Chemical Laboratories.
A.B., Harvard University, 1914; M.A., 1928; Ph.D., 1932. Assistant Professor, 1926-32; Associate Professor, 1932-37; Professor since 1937 (February).

JAMES ACKLEY MAXWELL, PH.D. 15 Sunnyhill Dr.
Professor of Economics.
A.B., Dalhousie University, 1921; M.A., Harvard University, 1923; Ph.D., 1927. Instructor, 1924-26; Assistant Professor, 1926-28; Associate Professor, 1928-37; Professor since 1937 (February).

SAMUEL VAN VALKENBURG, PH.D. 11 South Flagg St.
Professor of Geography. Director of the Graduate School of Geography.
Ph.D., University of Zürich, 1918. Special Lecturer in Geography, second semester, 1926-27; Assistant Professor, 1927-29; Associate Professor, 1932-37; Professor since 1937 (February).

ROBERT STANLEY ILLINGWORTH, M.A., ED.M. Pleasant St., Barre
Professor of Speech and Drama.
A.B., Clark University, 1917; M.A., Lafayette College, 1926; Ed.M., Harvard University, 1933; B.D., Andover Theological School, 1945. Associate Professor of English, 1931-38; Professor since 1938 (February). Director of the Summer School, 1935-41.

VERNON JONES, PH.D. 267 Salisbury St.
Professor of Educational Psychology.
A.B., and M.A., University of Virginia, 1920; M.A., Columbia University, 1924; Ph.D., 1926. Associate Professor, 1926-38; Professor since 1938 (February).

HENRY DONALDSON JORDAN, PH.D. 171 Woodland St.
Professor of English History.
A.B., Harvard University, 1918; M.A., 1922; Ph.D., 1925. Associate Professor, 1931-38; Professor since 1938 (February).

DWIGHT ERWIN LEE, PH.D. 3 Woodman Rd.
Professor of Modern European History.
A.B., University of Rochester, 1921; M.A., 1922; Ph.D., Harvard University, 1928 (February). Assistant Professor, 1927-30; Associate Professor, 1930-38; Professor since 1938 (February).

**DAVID POTTER, PH.D. 113 South St., Auburn, Mass.
Professor of Biology.
B.Sc., Massachusetts Agricultural College, 1916; M.Sc., 1923; Ph.D., Harvard University, 1932. Instructor, 1924-27; Assistant Professor, 1927-33; Associate Professor, 1933-38; Professor since 1938 (February).

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*Absent on leave, first semester, 1953-54.

**Absent on leave, second semester, 1953-54.

PERCY MARTIN ROOPE, PH.D. 2 Lovell Drive

Professor of Physics.

A.B., Clark University, 1920; M.A., 1924; Ph.D., 1927. Instructor, 1921-27; Assistant Professor, 1927-31; Associate Professor, 1931-43; Professor since 1943.

RAYMOND EDWARD MURPHY, PH.D.

Westminster Rd., Princeton, Mass.

Professor of Economic Geography since 1946.

B.S., Missouri School of Mines and Metallurgy, 1923; M.S., University of Wisconsin, 1926; Ph.D., 1930.

HEINZ WERNER, PH.D. 10 Atwater St.

Professor of Psychology since 1947.

Ph.D., University of Vienna, 1915. G. Stanley Hall Professor of Genetic Psychology, April, 1949.

CHARLES THEODORE BUMER, PH.D. 121 Richmond Ave.

Professor of Mathematics since 1948.

B.Sc., Denison University, 1919; M.A., Harvard University, 1922; Ph.D., Ohio State University, 1931.

KARL J. ARNDT, PH.D. 5 Hazelwood Road

Professor of German since 1950.

M.A., Washington University, 1928; Ph.D., The Johns Hopkins University, 1933.

***RICHARD JEWETT LOUGEE, PH.D.**

Brigham Hill Rd., North Grafton, Mass.

Professor of Physiography.

B.S., Dartmouth College, 1927; M.A., University of Michigan, 1929; Ph.D., Columbia University, 1938. Associate Professor, 1947-1950 (January); Professor since 1950.

ARTHUR EARL MARTELL, PH.D. Maynard St., Northboro

Professor of Chemistry.

B.S., Worcester Polytechnic Institute, 1938; Ph.D., New York University, 1941. Assistant Professor, 1942-46; Associate Professor, 1946-51; Professor since 1951.

JOSEPH WEINREB, M.D. 21 Catherine St.

Professor (Affiliate) of Psychology since 1947.

A.B., Vanderbilt University, 1931; M.D., 1935.

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*Absent on leave, 1953-54.

ASSOCIATE PROFESSORS

Rudolph Fink Nunnemacher, Ph.D.
Putnam Hill Rd., Sutton, Mass.

Associate Professor of Biology. Acting Director, Clark Evening College.

B.S., Kenyon College, 1934; M.A., Harvard University, 1935; Ph.D., 1938. Assistant Professor, 1939-44; Associate Professor since 1944 (February).

John Elderkin Bell, Ed.D. Putnam Rd., Holden, Mass.

Associate Professor of Psychology since 1944.

A.B., University of British Columbia, 1933; M.A., Columbia University, 1941; Ed.D., 1942.

Frederick W. Killian, LL.B. 3A Clement St.

Associate Professor of Sociology since 1947.

LL.B., New York University, 1925; A.B., 1934.

George Edward Hargest, M.B.A. 209 Lovell St.

Associate Professor of Economics and Business Administration.

B.S., Temple University, 1933; M.Ed., 1937; M.B.A., Boston University, 1947. Assistant Professor, 1942-48; Associate Professor since 1948.

Theodore Nicol, Ph.D. 10 Circuit Ave.

Associate Professor of Romance Languages.

A.B., Clark University, 1926; M.A., Harvard University, 1928; Ph.D., 1933. Visiting Professor, 1946-48; Associate Professor since 1948.

J. Richard Reid, Ph.D. Stafford St., Rochdale, Mass.

Associate Professor of Romance Languages.

A.B., Swarthmore College, 1935; M.A., Harvard University, 1936; Ph.D., 1943. Assistant Professor, 1944-48; Associate Professor since 1948.

Seymour Wapner, Ph.D. 26 Prouty Lane

Associate Professor of Psychology since 1948.

A.B., New York University, 1939; M.A., University of Michigan, 1940; Ph.D., 1943.

***Henry John Warman, Ph.D.** 193 Lovell St.

Associate Professor of Geography.

B.S. in Ed., Bloomsburg, Pa., State Teachers' College, 1932; Ed.M., Temple University, 1938; Ph.D., Clark University, 1945. Assistant Professor, 1943-44; 1945-48; Associate Professor since 1948.

Karl Oscar Emanuel Anderson, Ph.D.
5 Brentwood Dr., Holden, Mass.

Associate Professor of English.

A.B., Harvard University, 1927; M.A., 1928; Ph.D., 1942. Assistant Professor, 1945-49; Associate Professor since 1949.

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*Absent on leave, second semester, 1953-54.

ROY CHALMERS GUNTER, PH.D. Dodge, Mass.

Associate Professor of Physics.

B.S., Bowdoin College, 1938; M.A., Boston University, 1939; Ph.D., 1942. Instructor in Physics and Mathematics 1941 (February) - 1943; Assistant Professor of Physics 1943-49; Associate Professor since 1949.

SHERMAN STRONG HAYDEN, PH.D. 68 Moore Ave.

Associate Professor of International Relations.

A.B., Harvard University, 1930; LL.B., 1933; M.A., Columbia University, 1936; Ph.D., 1942. Assistant Professor, 1946-49; Associate Professor since 1949.

FREDERICK EUGENE MELDER, PH.D. 173 Woodland St.

Associate Professor of Economics.

B.B.A., Univerity of Washington, 1926; M.A., 1931; Ph.D., University of Wisconsin, 1936. Assistant Professor, 1937-42; Associate Professor, 1942-46 and since 1950.

EDWARD COUNSELMAN HIGBEE, PH.D.
78 Highland St., Holden, Mass.

Associate Professor of Geography since 1950 (February).

A.B., University of Wisconsin, 1932; M.A., 1938; Ph.D., Johns Hopkins University, 1949.

ROBERT FRANCIS CAMPBELL, PH.D. 72 Salisbury St.

Associate Professor of American History.

A.B., Yale University, 1939; M.A., Columbia University, 1940; Ph.D., 1947. Assistant Professor, 1946-50, Associate Professor since 1950.

GERSON KEGELES, PH.D. 52 Zenith Drive

Associate Professor of Chemistry since 1951.

B.S., Yale University, 1937; Ph.D., 1940.

CLAUDE W. BARLOW, PH.D. 2 Oak St.

Associate Professor of Classics.

A.B., Amherst College, 1928; M.A., Indiana University, 1930; Ph.D., Yale University, 1935. Assistant Professor, 1947-52; Associate Professor since 1952.

LESLIE PHILLIPS, PH.D. 47 Lear St.

Associate Professor (Affiliate) in Clinical Psychology.

M.A., University of Chicago, 1944; Ph.D., 1949. Instructor (Affiliate) 1946-50; Assistant Professor (Affiliate) 1950; Associate Professor (Affiliate) since 1950.

TAMARA DEMBO, PH.D. 20 Loudon St.

Associate Professor of Psychology since February, 1953.

Ph.D., University of Berlin, 1930.

Richard S. Lazarus, Ph.D. 22 Hartshorn Ave.

Associate Professor of Psychology since 1953.

A.B., College of the City of New York, 1942; M.S., University of Pittsburgh, 1948; Ph.D., 1948.

Morris H. Cohen, Ph.D. 989 Main St.

Associate Professor of Government.

A.B., University of Chicago, 1939; Ph.D., 1950. Assistant Professor, 1947-53; Associate Professor since 1953.

John Sunapee Stubbe, Ph.D. 101 South Flagg St.

Associate Professor of Mathematics.

B.S., University of New Hampshire, 1941; M.S., Brown University, 1942; Ph.D., University of Cincinnati, 1945. Assistant Professor, 1949-53; Associate Professor since 1953.

Edith Meyer-Taylor, Ph.D. Jamaica Plain, Mass.

Associate Professor (Affiliate) in Psychology, second semester, 1953-54. Ph.D., University of Leipzig, 1933.

ASSISTANT PROFESSORS

M. Hazel Hughes, M.Ed. 638 Pleasant St.

Associate Dean for Women since 1949. Director of Physical Education for Women.

B.Ed., Clark University, 1944; M.Ed., Boston University, 1949.

J. Fannin King, M.A.

Assistant Professor of Romance Languages since 1946.

A.B., Pomona College, 1936; M.A., Harvard University, 1937.

James S. Edwards, M.A. 25 Richards St.

Assistant Professor of German since 1947.

A.B., Brown University, 1936; M.A., 1938.

John Hiram Blair, M.A. 17 Fiske St.

Assistant Professor of Physiology since 1948.

A.B., Wesleyan University, 1937; M.A., 1939.

David Lane, Ph.D. 1 Dayton St.

Assistant Professor of Education since 1948, and Director of Placement.

A.B., University of Maryland, 1941; M.A., Columbia University, 1947; Ph.D., 1952.

Rocheleau Z. Granger, Jr., M.A. in Ed.
113 Paxton St., Leicester, Mass.

Director of Physical Education for Men since 1949.

A.B., Clark University, 1938; M.A. in Ed., 1939.

GORDON T. GWINN, PH.D. 26 Charlotte St.
Assistant Professor of Psychology since 1949.
A.B., University of Arizona, 1942; Ph.D., Yale University, 1948.

EUGENE J. KELLEY, M.B.A. 16 Oread St.
Assistant Professor of Economics and Business Administration since 1949.
Acting Director, Division of Business Administration.
B.S., University of Connecticut, 1944; M.Ed., Boston University, 1948; M.B.A., 1949.

HENRY CHARLES BORGER, JR., M.A. Union St., Holden, Mass.
Assistant Professor of Education since 1950.
A.B., Princeton University, 1933; M.A., Columbia University, 1938.

JOSEPH A. NORDSTROM, M.S. 59 Prospect St.
Assistant Professor of Business Administration since 1950.
B.S., Northeastern University, 1941; M.S., Massachusetts Institute of Technology, 1947.

WILLIAM H. CARTER, JR., PH.D. 18 Oread St.
Assistant Professor of English.
A.B., Middlebury College, 1936; M.A., Harvard University, 1938; Ph.D., 1951. Instructor, 1949-51; Assistant Professor since 1951.

DANIEL GORENSTEIN, PH.D. 71 Oldham Rd., West Newton, Mass.
Assistant Professor of Mathematics since 1951.
A.B., Harvard University, 1943; Ph.D., 1950.

ROBERT N. BECK, PH.D. 24 Mayflower Rd., Leicester, Mass.
Assistant Professor of Philosophy.
A.B., Clark University, 1947; M.A., Boston University, 1948; Ph.D., 1950. Instructor 1948-52; Assistant Professor since 1952.

DONALD HENRY LETENDRE, M.A. IN ED. 17 Oberlin St.
Assistant Professor of English.
A.B., Clark University, 1938; M.A. in Ed., 1939. Instructor 1946-52; Assistant Professor since 1952.

MARC RAEFF, PH.D. 989 Main St.
Assistant Professor of Russian History and Language.
M.A., Harvard University, 1947; Ph.D., 1950. Instructor, 1949-52; Assistant Professor since 1952.

SHELDON SCHAFFER, M.A. 4 Prouty Lane
Assistant Professor of Economics.
A.B., University of Iowa, 1944; M.A., Yale University, 1947. Instructor 1948-52; Assistant Professor since 1952.

JOHN LEWIS BRADLEY, PH.D. 26 William St.
Assistant Professor of English since 1953.
A.B., Yale University, 1940; M.A., Harvard University, 1946; Ph.D., Yale University, 1950.

THOMAS TAMOTSU SUGIHARA, PH.D. 51 Hitchcock Rd.
Assistant Professor of Chemistry since 1953.
A.B., Kalamazoo College, 1945; S.M., University of Chicago, 1951; Ph.D., 1952.

DIETER BRUNNSCHWEILER, PH.D. 22 Downing St.
Assistant Professor of Geography, 1953-54.
A.B., University of Zurich, 1945; M.A., 1949; Ph.D., 1952.

INSTRUCTORS

GUY HARVEY BURNHAM, M.A. 19 Woodman Rd.
Instructor in Geography since 1946. Cartographer, Graduate School of Geography since 1922.
A.B., Clark University, 1916; M.A., 1922.

SAMUEL P. COWARDIN, III, M.A. 14 Oberlin St.
Instructor in Fine Arts since 1949.
A.B., Harvard University, 1943; M.A., 1948.

ALFRED W. BEERBAUM, PH.D. 209 Lovell St.
Instructor in German since 1952.
A.B., Colby College, 1938; M.A., University of North Carolina, 1940; Ph.D., New York University, 1950.

RAYMOND E. BARBERA, DOCTOR EN LETRAS 23 Shirley St.
Instructor in Romance Languages since 1953.
A.B., Brooklyn College, 1947; M.A., University of Arizona, 1948; Doctor en Letras, Universidad Nacional de Mexico, 1949.

THEODORE LEVENTHAL, B.A. 36 Granville Ave.
Instructor in Psychology, 1953-54.
A.B., Brooklyn College, 1948.

RICHARD SLADE HARRELL, M.A. 10 Norwood St.
Instructor in Romance Languages, 1953-54.
A.B., Texas Christian University, 1950; M.A., Harvard University, 1953.

LECTURERS

PHILIP H. BREEN, LL.B. 151 Barnard Rd.
Lecturer in Business Law since 1947 (January).
A.B., The College of the Holy Cross, 1920; LL.B., Boston University, 1923.

CLIFFORD F. GREEN 6 Saxon Rd.
Lecturer in Music, 1953-54.

BERNARD KAPLAN, PH.D. 6 Gates St.
Lecturer in Psychology, 1953-54.
A.B., Brooklyn College, 1948; M.A., Clark University, 1950; Ph.D., 1953.

DAVID TODD, PH.D. 153 Boylston St., Shrewsbury
Lecturer in Chemistry, first semester, 1953-54.
A.B., Swarthmore College, 1938; M.A., Harvard University, 1940; Ph.D., 1942.

FRANKLIN CARTER, M.D. 15 Bellevue Ave., Cambridge, Mass.
Psychiatric Consultant since 1952.
B.S., Yale University, 1935; M.D., Harvard University, 1941.

M. EVELYN HARRIMAN, M.A. IN ED. 39 Courtland St.
Lecturer in Education, first semester, 1953-54.
B.S. in Ed., Boston University, 1948; M.A. in Ed., 1950.

THERESA F. KAVANAGH, M.A. IN ED. 402 Oxford St., Auburn, Mass.
Lecturer in Education, first semester, 1953-54.
B.Ed., Rhode Island College of Education, 1946; M.A. in Ed., Boston University, 1953.

RAYMOND F. COOK, M.A. IN ED. Belmont, Mass.
Lecturer in Education, second semester, 1953-54.
B.S. in Ed., Bridgewater State Teachers College, 1935; M.A. in Ed., Boston University, 1945.

LEONARD S. KOGAN, PH.D. New York, N. Y.
Visiting Lecturer in Psychology, 1953-54.
A.B., Lafayette College, 1940; M.A., University of Rochester, 1942; Ph.D., 1948.

ERWIN RAISZ, PH.D. Cambridge, Mass.
Visiting Lecturer in Geography, second semester.
Diploma, Royal Polytechnicum, Budapest, 1914; M.A., 1924; Ph.D., Columbia University, 1929.

CHELCIE C. BOSLAND, PH.D. Providence, R. I.
Visiting Lecturer in Economics, first semester, 1953-54.
B.S., University of Minnesota, 1923; M.A., 1923; Ph.D., University of Michigan, 1929.

Stanley Adrian Fishler, M.A.	Cambridge, Mass.

Visiting Lecturer in Sociology, 1953-54.
A.B., University of Utah, 1949; M.A., 1951.

Samuel J. Lukens, Ph.D.	30 Waconah Rd.

Visiting Lecturer in Economics, 1953-54.
A.B., University of Michigan, 1928; M.B.A., 1929, Ph.D., 1940.

Harold H. Kelley, Ph.D.	New Haven, Conn.

Visiting Lecturer in Psychology, second semester, 1953-54.
A.B., University of California, 1942; M.A., 1943; Ph.D., Massachusetts Institute of Technology, 1948.

Robert Hawkes, A.B.	Cambridge, Mass.

Visiting Lecturer in Industrial Psychology, second semester, 1953-54.
A.B., Bard College, 1949.

Seymour Friedland, M.B.A.	Cambridge, Mass.

Visiting Lecturer in Economics, second semester, 1953-54.
B.S., Boston University, 1950; M.B.A., 1951.

Hassan Awad, D.Litt.	112 Woodland St.

Visiting Lecturer in Geography, 1953-54.
D.Litt., Sorbonne, Paris, 1950.

ASSISTANTS IN PHYSICAL EDUCATION

Roland C. Lambert, B.S.	6 Oak Ave., Auburn

Assistant Director of Physical Education for Men since 1948.
B.S., Springfield College, 1937.

Frances Cockrell, B.S. in Ed.	7 Hawthorne St.

Assistant Director of Physical Education for Women since 1951.
B.S. in Ed., Bouvé-Boston School, 1949.

Special Graduate School Appointments

POST-DOCTORAL FELLOW IN CHEMISTRY

Dr. Keihei Ueno	October, 1953 to April, 1954

Bachelor's degree, 1944, from University of Kyushu, Japan. Doctorate, 1954.

TEACHING FELLOWS

Deane C. Carson	Economics and Sociology

A.M., College of William and Mary, 1949.

Peter J. Drevinsky	Chemistry

M.S., Massachusetts Institute of Technology, 1951.

Thomas G. Duffy A.B., Wayne University, 1948.	History and International Relations
Allen R. Goldfaden A.B., Clark University, 1950	Economics and Sociology
Alvin G. Goldstein A.B., Brooklyn College, 1950.	Psychology
Criton S. Inglessis A.B., Colgate University, 1953.	Chemistry
Vsevolod Mihajlov Student, University of Munich, School of Medicine, 1948-1950.	Chemistry
James M. Miller A.M., University of South Dakota, 1953.	History and International Relations
William A. Osborne A.M., Fisk University, 1953.	Economics and Sociology
Alfred Richard B.S., Lowell Textile Institute, 1953.	Chemistry
Emilio J. Troianello M.S., Tufts College, 1941.	Chemistry

APPOINTMENTS UNDER GRADUATE FUNDS

The Alumni Association Fund

F. Carl Miller A.M., University of Western Ontario, 1952.	Economics and Sociology

The Austin S. Garver Fund

Shusaku Ayada A.B., Kagawa University, 1953.	Economics and Sociology
Joseph Church A.M., Cornell University, 1951.	Psychology
Richard D. Sands M.S., University of Wisconsin, 1953.	Geography
Gerald A. Schultz A.B., State University of Iowa, 1950.	Geography

The Charles H. Thurber Fund

Lindsley E. Webster A.B., Lehigh University, 1953.	History and International Relations

Alphabetical List of Faculty and Administration

George E. Allen, A.B., Alumni Secretary
Festus G. Amsden, A.B., Assistant in Physical Education for Men
Karl O. E. Anderson, Ph.D., Associate Professor of English
Robert P. Anderson, M.S., Assistant to the President
Karl J. Arndt, Ph.D., Professor of German
Hassan Awad, D.Litt., Visiting Lecturer in Geography
Raymond E. Barbera, D. en Letras, Instructor in Romance Languages
Claude W. Barlow, Ph.D., Associate Professor of Classics
Robert N. Beck, Ph.D., Assistant Professor of Philosophy
Alfred W. Beerbaum, Ph.D., Instructor in German
John E. Bell, Ed.D., Associate Professor of Psychology
John H. Blair, M.A., Assistant Professor of Physiology
Henry C. Borger, Jr., M.A., Assistant Professor of Education
Chelcie C. Bosland, Ph.D., Visiting Lecturer in Economics
John L. Bradley, Ph.D., Assistant Professor of English
Philip H. Breen, LL.B., Lecturer in Business Law
Dieter Brunnschweiler, Ph.D., Assistant Professor of Geography
Jesse L. Bullock, Ph.D., Professor of Chemistry
Charles T. Bumer, Ph.D., Professor of Mathematics
Guy H. Burnham, M.A., Instructor in Geography, Cartographer
Robert F. Campbell, Ph.D., Associate Professor of American History
Franklin Carter, M.D., Psychiatric Consultant
William H. Carter, Jr., Ph.D., Assistant Professor of English
Miss Frances Cockrell, B.S. in Ed., Assistant Director of Physical Education for Women
Morris H. Cohen, Ph.D., Associate Professor of Government
Mrs. Lydia P. Colby, Registrar
Raymond F. Cook, M.A. in Ed., Lecturer in Education
Richard J. Courtney, Manager of Bookstore
Samuel P. Cowardin, III, M.A., Instructor in Fine Arts
Miss Tamara Dembo, Ph.D., Associate Professor of Psychology
James S. Edwards, M.A., Assistant Professor of German
Miss Jewel Ann Emory, A.B., Assistant in Public Relations
Stanley A. Fischler, M.A., Visiting Lecturer in Sociology
Michael B. Fox, M.D., Medical Director
Seymour Friedland, M.B.A., Visiting Lecturer in Economics
Daniel Gorenstein, Ph.D., Assistant Professor of Mathematics
Rocheleau Z. Granger, M.A. in Ed., Director of Physical Education for Men
Clifford F. Green, Lecturer in Music
Roy C. Gunter, Ph.D., Associate Professor of Physics
Gordon T. Gwinn, Ph.D., Assistant Professor of Psychology
George E. Hargest, M.B.A., Associate Professor of Economics and Business Administration
Richard S. Harrell, M.A., Instructor in Romance Languages
Mrs. M. Evelyn Harriman, M.Ed., Lecturer in Education
Robert Hawkes, A.B., Visiting Lecturer in Industrial Psychology
Sherman S. Hayden, Ph.D., Associate Professor of International Relations
Mrs. John Healey, Housemother, Woodland House
Miss Marion Henderson, B.S., Acting Librarian
Edward C. Higbee, Ph.D., Associate Professor of Geography
Mrs. Mary A. Hubbard, Bursar
Miss M. Hazel Hughes, M.Ed., Associate Dean for Women and Director of Physical Education for Women
Robert S. Illingworth, M.A., M.Ed., Professor of Speech and Drama
Howard B. Jefferson, Ph.D., President

Vernon A. Jones, Ph.D., Professor of Educational Psychology
H. Donaldson Jordan, Ph.D., Professor of English History
Bernard Kaplan, Ph.D., Lecturer in Psychology
Miss Theresa Kavanagh, M.Ed., Lecturer in Education
Gerson Kegeles, Ph.D., Associate Professor of Chemistry
Eugene J. Kelley, M.B.A., Assistant Professor of Economics
Harold H. Kelley, Ph.D., Visiting Lecturer in Psychology
Frederick W. Killian, LL.B., Associate Professor of Sociology
J. Fannin King, M.A., Assistant Professor of Romance Languages
Leonard S. Kogan, Ph.D., Viisting Lecturer in Psychology
Roland C. Lambert, B.S., Assistant Director of Physical Education for Men
Mrs. Ruth Landry, Manager of Dining Hall
David Lane, Ph.D., Assistant Professor of Education
Richard S. Lazarus, Ph.D., Associate Professor of Psychology
George A. LeBlanc, Manager of Student Union
Dwight E. Lee, Ph.D., Professor of Modern European History
Donald H. Letendre, M.A. in Ed., Assistant Professor of English
Theodore Leventhal, A.B., Instructor in Psychology
Homer P. Little, Ph.D., Dean of the College
Richard J. Lougee, Ph.D., Professor of Physiography
Samuel J. Lukens, Ph.D., Visiting Lecturer in Economics
Arthur E. Martell, Ph.D., Professor of Chemistry
James A. Maxwell, Ph.D., Professor of Economics
F. Eugene Melder, Ph.D., Associate Professor of Economics
George H. Merriam, M.A., Assistant Director of Admissions
Mrs. Edith Meyer-Taylor, Ph.D., Associate Professor Affiliate in Psychology
Raymond E. Murphy, Ph.D., Professor of Economic Geography
Wilfred Myatt, Proctor, Estabrook Hall
Mrs. Winifred Nagle, Nurse
Theodore Nicol, Ph.D., Associate Professor of Romance Languages
Joseph A. Nordstrom, M.S., Assistant Professor of Business Administration
R. Webb Noyes, M.S., Cataloger and Classifier, Library
Rudolph F. Nunnemacher, Ph.D., Associate Professor of Biology
Samuel Osgood, Ph.D., Administrative Assistant, Library
Leslie Phillips, Ph.D., Associate Professor of Clinical Psychology
Mrs. Hervey Plenge, Housemother, Blakeslee House
David Potter, Ph.D., Professor of Biology
Marc Raeff, Ph.D., Assistant Professor of Russian History and Language
Erwin Raisz, Visiting Lecturer in Geography
J. Richard Reid, Ph.D., Associate Professor of Romance Languages
Percy M. Roope, Ph.D., Professor of Physics
Sheldon Schaffer, M.A., Assistant Professor of Economics
Patrick V. Sheehan, Assistant Treasurer
John S. Stubbe, Ph.D., Associate Professor of Mathematics
Thomas T. Sugihara, Ph.D., Assistant Professor of Chemistry
David Todd, Ph.D., Lecturer in Chemistry
Samuel Van Valkenburg, Ph.D., Professor of Geography
Seymour Wapner, Ph.D., Associate Professor of Psychology
Henry J. Warman, Ph.D., Associate Professor of Geography
Joseph Weinreb, M.D., Professor Affiliate in Psychology
Heinz Werner, Ph.D., Professor of Psychology
Milton H. Yudell, M.D., Medical Director

Directory of Students, 1953-54

Names of students are grouped in five lists:

I (1) — graduate students, undergraduate students and special students in attendance during the regular academic year 1953-54;
I (2) — those who were in attendance in the second semester only;
I (3) — those who were in residence less than one semester;
II — those who attended the 1953 Summer School;
III — those who attended the Evening College.

Explanation of letters and symbols:

S — Scholar
F — Fellow
54, 55, 56, 57 — undergraduates
g — students formally admitted to the graduate school
s — special students
B — biology
BA — business administration
Ch — chemistry
Ec — economics and sociology
Ed — education
En — English
FA — fine arts
Ger — German
G — geography
H — history and international relations
M — mathematics
Ph — physics
Phil — philosophy
Ps — psychology
RL — romance languages
V — veteran (preceding classification)
* — student in residence during the first semester only

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

I (1) — GRADUATE STUDENTS, COLLEGE STUDENTS AND SPECIAL STUDENTS IN ATTENDANCE DURING THE REGULAR ACADEMIC YEAR

Name	*Classification*	*Home Address*	*Local Address*
Abraham, William John	V 57		14 Acton St.
Adamsky, Cathryn Ann	55	*Auburn*	
Adamsky, John, Jr.	V 54	*Auburn*	
Agabian, Merritt	V 55	*Oxford*	
Aharonian, Donald John	54		34 Dover
*Ahlin, John Howard	V H g		3 Mars
Al-Ani, Khattab Saggar	G g	*Baghdad, Iraq*	21 Richards
*Albert, Leon M.	V 55	*New Haven, Conn.*	70 Maywood
Aldrich, Virginia Anne	H S	*Springfield*	100 Woodland
Alexander, Valavuchirackal Kurien	Ps g	*Travaneore, India*	7 Kilby
Al-Khashab, Wafiq Hussain	G g	*Baghdad, Iraq*	11 Charlotte
Allmon, Cecil Iris	55		217 May

Name	*Classification*	*Home Address*	*Local Address*
Allstrom, June Margaret	56	*Auburn*	
Al-Maiyah, Ali Mohammed	V G g	*Baghdad, Iraq*	25 Freeland
Almasian, Anthony H.	V 56	*Massena, N. Y.*	22 Lakeside Ave.
Angelos, James Thomas	54	*Fitchburg*	67 Piedmont
*Anger, Ernest Leo, Jr.	57		1 Algonquin Rd.
Anton, Thomas Julius	56		84 Providence
Arons, Martin	57	*Berlin, Germany*	Estabrook Hall
Ashley, Richard Earl	55	*Waterbury, Vt.*	11 Pemberton
Aulson, William Neil	V 57	*Lynn*	Estabrook Hall
Avey, Robert Edmond	V 54	*Marlboro*	
Ayada, Shusaku	Ec S	*Takamatsu, Japan*	4 Englewood Ave.
Babor, Warren Rud	54	*Bound Brook, N. J.*	14 Oberlin
Bailey, Elaine Gertrude	56	*St. Johnsbury, Vt.*	Hahnemann Hosp.
Bailey, George LaForest	55	*Gardiner, Me.*	35 Maywood
Baker, Joyce Ann	56	*S. Yarmouth*	Woodland House
Baker, Richard Joint	54	*Barre*	11 Hawthorne
Bank, Stanley	55	*Bronx, N. Y.*	70 Maywood
Baraf, Joseph Elliot	56	*Neponsit, N. Y.*	36 Richards
Bardsley, Bruce Morgan	56	*Auburn*	
Barker, Robert Burns	V 54		90 Burncoat
Barnett, Carol Jean	56	*New York, N. Y.*	Fanning House
Barse, Lawrence Paul	55	*Forest Hills, N. Y.*	36 Richards
Bassios, Anastasia	56		478 Burncoat
Bates, Harold Martin	56	*Dorchester*	
Battisti, James Mario	57	*Hudson*	
*Belevick, Albin Francis	55	*Paxton*	
Benjamin, Marcel Rene	V 54	*N. Grosvenordale, Conn.*	
Bennett, Edwin Howe	56	*Auburn*	
Bergquist, Brigham King	56		8 Abbott
Berman, Joseph Irvin	57	*Marlboro*	
Berthold, Elden George, Jr.	54	*Attleboro*	16 Marble
*Besnia, Richard Paul	54		30 Institute Rd.
*Bialy, Karol John	57	*Southbridge*	
Biancheria, Amilcare	Ch S		280 Shrewsbury
Bibace, Roger M. Albert	Ps F	*Alexandria, Egypt*	Worc. State Hosp.
Bicknell, Donna	55		16 Bay State Rd.
Bilzerian, Edward Sarkis	55		1264 Pleasant
Binkiewicz, Longin Wladyslaw	V 55	*E. Walpole*	888 Main
Blair, Richard Kent	V 55	*Southbridge*	
Blanchard, Peter	57	*Staten Island, N. Y.*	Estabrook Hall
*Blane, Howard Thomas	V Ps g	*Daytona Beach, Fla.*	104 Brighton, Boston
Bley, John Earl	54		2 Clough Ter.
Bliss, Monte Maurice	Ps g	*Van Hiseville, N. J.*	4 Hartshorn Ave.
Bloch, Edward	54	*Flushing, L. I., N. Y.*	11 Hawthorne
Blomgren, Bertil C. Arne	V 54	*Millbury*	

Name	*Classification*	*Home Address*	*Local Address*
Bloomgarden, Charles Irving	57	*Laurelton, N. Y.*	Estabrook Hall
Bloomgarden, Gerald Alan	54	*Laurelton, N. Y.*	40 Richards
Bogage, Lewis Eugene	57		253 June
Bogigian, Robert A.	57		8 Moen
Bogoian, George	56		49 Florence
Boisvert, Gregory Louis	Ph F		Assumption College
Bolten, Jerome Jerald	56	*New York, N. Y.*	Estabrook Hall
Bondanza, Marie Ann	55	*Corona, N. Y.*	Woodland House
Borglund, Robert Emmett	V 55		14 Ekman
Boucher, Russell Louis	V 55	*Sterling*	
Bouley, Gloria Ann	55	*N. Oxford*	Blakeslee House
Bourque, Edgar Andrew	Ed g		Assumption College
Bouve, Clifton Edward	V 54		14 Richmond
Bowditch, Mrs. Helen Andrews	H g		15 Westland
Bowker, Mrs. Patricia Benton	54		38 Fruit
*Bragg, John Douglas	54	*Framingham*	29 Smith Rd., Shrewsbury
Breen, John Joseph, Jr.	V Ec g	*Providence, R. I.*	
Bresnick, Edith	57	*Manchester, N. H.*	Fanning House
Briggs, Harriet Louise	57		121 Bailey
Brotherton, Lynda Beth	57		108 Purchase
Brotherton, Shirley Hope	54		3 Marcy
Brown, Richard C.	V Ch g		10 Fales
Bruce, Marshall Holland	57	*Hudson*	
Brumer, Robert Nathan	57	*Brooklyn, N. Y.*	Estabrook Hall
Bruso, Paul Richard	V 55	*Auburn*	
Bruso, William Frederick	V 54		20 William
Brust, Ronald William	56		2 Ethan Allen
Bryant, Barbara	57	*Grafton*	
Buckley, Cynthia Ann	56	*Auburn*	
Bunker, Kenneth Gordon	56	*Wollaston*	145 Woodland
Burdulis, Bernice Mary	55		146 Sterling
Burgoyne, Marion Barbara	57	*Clinton*	
Burns, Patricia Ann	55		27 Grand
Burton, David MacGregor	54		87 June
Burton, Frank Stevenson	56		87 June
Burton, Warren Hepburn, Jr.	V G S	*West Chester, Pa.*	4 Downing
Butterworth, Herbert Hartley	V 55	*Southbridge*	
Caligaris, Conrad Peter	55		10 Silver
Callahan, Bernard Dennen	V 54		10 Farnum
Callahan, Daniel Thomas	55		39 Charlotte
Calverley, Mrs. Joan Nelson	55		36 Oxford
Caplan, Elinor Beth	56	*New Haven, Conn.*	Woodland House
Carapetian, Jean Y.	56	*Tehran, Iran*	173 Main
Card, Bryant Walter	55		199 Pleasant
*Carey, Robert Vincent	V Ed g	*Millbury*	

Name	*Classification*	*Home Address*	*Local Address*
Carlson, Arthur Wallace, Jr.	55		17 Chatham Village Rd.
Carlson, Richard David	V 54	*Framingham*	
Carson, Deane C.	Ec F	*Greeley, Colo.*	7 Hawthorne
Caron, Henri Lionel	V 57	*Fitchburg*	
Carter, Mrs. Lorna L.	55		18 Oread
Cary, Mary Judith	57		1283 Pleasant
Caspi, Eliahu	V Ch g	*Tel-Aviv, Israel*	114 Elm
Chamberlain, Peter Baird	57	*Westminster, Vt.*	Estabrook Hall
Chapman, Sally Ann	55		134 Richmond Ave.
Charlesworth, Donald William	55		2 Lauf
Charron, Georgiana Mae	54		70 Longfellow
Chavoor, Shirley Marie	56		17 Rob Roy Rd.
Cherry, Richard Meredith	V 56	*W. Medway*	Estabrook Hall
Chester, Anthony Joseph	V 57	*Fitchburg*	
Chin, Eugene Sheu Theung	54		5 Fiske
Christie, John Chris	V 57	*New York, N. Y.*	Estabrook Hall
Christoffers, Harry John, Jr.	Ch g	*Belchertown*	
Church, Joseph	V Ps F	*Columbia, S. C.*	10 Silver
Clem, Gordon Henry	Ed g	*Auburn*	
Clough, Donald Joseph	57	*Spencer*	
*Cohen, Charlotte Roslyn	Ed g		49 Sagamore Rd.
*Cohen, Franklin Samuel	57	*W. Hartford, Conn.*	Estabrook Hall
Cohen, Frederick Clifford	56	*Marlborough*	2 Clement
Cohen, Harris Irving	56	*Rochester, N. Y.*	9 Wyman
Cohen, Martin Bert	56	*New York, N. Y.*	Estabrook Hall
*Cohen, Stephen Lee	56	*New York, N. Y.*	6 Downing
Cohn, Linda	56	*Laurelton, N. Y.*	150 Woodland
Collins, Mrs. Delores Felice	57		2 Kingsbury
Collins, William Francis	V 57		205 Clark
Comalli, Peter Elia, Jr.	Ps g	*Lee*	6 Richards
Companion, Janet Louise	54	*Auburn*	
Companion, Richard Paul	56	*Auburn*	
Conant, Bryant Lee	55	*Auburn*	
Corkum, Keith H., Jr.	V 55		42 Hollywood
Cosman, Henry Giles	55	*Framingham*	
Cote, Jeanette Cecile	57	*Moosup, Conn.*	52 High
Couch, Norman Walter	54	*New Preston, Conn.*	11 Dean
*Couillard, Robert Paul	54		93 Plantation
Cowen, Donald Wayne	55	*Providence, R. I.*	10 Charlotte
Craven, Francis Joseph, Jr.	Ch F	*Lowell*	40 Richards
Crawford, Mary Ann	57	*Durham, Conn.*	Woodland House
Crawford, Robert Lee	55		45 Gardner
Cregier, Don Mesick	H F	*Schenectady, N. Y.*	9 Kilby
Cromidas, Paul	54		329 Mill
Croog, Myra Leah	56	*New Haven, Conn.*	Fanning House

Name	*Classification*	*Home Address*	*Local Address*
Crovitz, Herbert Floyd	Ps g	*Edgewood, R. I.*	10 Charlotte
Crowley, Paul Walter, Jr.	V 55	*Winchendon*	17 Crystal
Culbert, John Everett	57		32 Lincoln
Culver, Ronald Gerard	54	*Rensselaer, N. Y.*	Estabrook Hall
Dahlstrom, Robert Frederick	55		11 Louise
Daigle, Nobert Alvin	V 56	*Gardner*	
Daly, James William	V 54	*E. Weymouth*	
D'Angona, Dominic Stephen	V 54		40 Burghardt
Daspin, Michael Jerome	55	*New York, N. Y.*	36 Richards
Daughney, Henry Augustus	V 56	*Fitchburg*	
Davis, Roberta Louise	54		24 Walcott
Dawson, Edmund Rushmore	55	*Buffalo, N. Y.*	143a Woodland
Dawson, George Brammer	57	*Prospect Plains, N. J.*	Estabrook Hall
Dawson, Robert William	V 57	*Albany, N. Y.*	Estabrook Hall
Dawson, Mrs. Sallye Silver	54	*Larchmont, N. Y.*	143a Woodland
DeBoer, Sidney Ernest	V 57	*Milford*	9 Wyman
Dedes, Michael S.	V 57		4 Warden
DeLeon, Raquel Maria	G S	*Panama, Republic of Panama*	46 Tirrell
del Olmo, Ginés	55	*Merida, Venezuela*	9 Wyman
*Dembowitz, Alan Morton	56	*Brooklyn, N. Y.*	40 Richards
Demers, William Joseph, Jr.	55	*Hudson, N. Y.*	100 Woodland
DeMerritt, Charles Allen, Jr.	V 55	*Norfolk*	950 Main
DeNigris, Nicholas Emanuel	57	*New Britain, Conn.*	Estabrook Hall
D'Errico, Peter Michael	V 57		13 Northboro
Dickman, Irwin Lawrence	54	*Brooklyn, N. Y.*	36 Richards
Diem, Aubrey	G S	*Detroit, Mich.*	104 Lakeside Dr., Shrewsbury
Diem, Mrs. Myrna Elgot	H g	*Detroit, Mich.*	104 Lakeside Dr., Shrewsbury
*Diliberto, Joseph Francis	B s		28 White Ave.
Dion, Louis Ferdinand	Ed g		670 W. Boylston
DiVerdi, Angelo M.	V 56	*Shrewsbury*	
*Dobiejko, Alexander John	V 56	*Norwich, Conn.*	
Donoian, Haig Cadmus	Ch S	*Lowell*	40 Richards
*Dora, Cornelius Moore	V 57	*Baldwinville*	
Douthit, Robert Collyer	54	*Petersham*	
Downey, Rae Edythe	54		16 Royal Rd.
Drevinsky, Peter Joseph	V Ch F	*Middleboro*	34 Gates
Duffy, John Francis	55		310 Hamilton
Duffy, Thomas Glen	V H F	*Detroit, Mich.*	20 Gates
Dworman, Ellis David	56	*Cherry Valley*	
Edwards, David Franklin, Jr.	V Ec g	*Cambridge, Md.*	40 Cedar
Ehrlich, Daniel Joseph	55	*New York, N. Y.*	100 Woodland
Elbein, Alan David	54		107 Tacoma

Name	*Classification*	*Home Address*	*Local Address*
Elliott, George Ferguson, Jr.	V 56	*Harrison, N. Y.*	Estabrook Hall
Ellison, Herbert Richard	55		54 W. Boylston Dr.
Emory, Jewel Ann	s		48 William
English, Paul Ward	57		16 Leon
*English, Richard Francis	56	*Westfield*	16 Marble
Engstrom, Joan Alfreda	56		63 Upsala
Engstrom, Lincoln	56	*Auburn*	
Ephraim, Elliott Maurice	55	*Providence, R. I.*	36 Richards
Erickson, Carolyn Ann	54		34 Butler
Erickson, Richard Bruce	54	*Milford*	
Erikson, Erna Marie	V 57		42 Eagan Ave.
Eriksson, Sylvie June	57		139 Ararat
Escolas, Richard Allen	55	*Auburn*	
Farrow, Raymond Leonard	56		26 Haynes
Feinblatt, Ann	56	*Waterbury, Conn.*	Woodland House
Feinstein, Rosaline Shirley	57	*Bridgeport, Conn.*	Blakeslee House
Feldt, Nancy Ann	55	*Auburn*	
*Fermin-Gomez, Mercedes	G g	*Caracas, Venezuela*	15 Gates
Fetherolf, John Warren	V Ed g, S	*Middletown, N. Y.*	2 Woodland
Finn, Patricia Ann M.	57	*Boston*	Blakeslee House
Finneran, James Henry	V 56		5 Beechmont
Finney, Thomas William	57		2 Vaughan Ave.
Fischer, Constance Rose	54		108 Barnard Rd.
Fitzsimmons, Patricia Ann	Ps S	*Jackson, Minn.*	875 Main
Flavell, John Hurley	V Ps g		104 Brighton, Boston
Flint, Martin Barry	55	*Newark, N. J.*	36 Richards
Flood, Thomas Kerry	57	*New York, N. Y.*	Estabrook Hall
Foley, Elizabeth Mary	54		192 Highland
Foley, Martin Joseph, Jr.	55		192 Highland
Ford, Marguerite Prentice	Ps S	*Summit, N. J.*	24 Gates
Forte, Wesley Elbert	56	*N. Brookfield*	
Forzley, Gladys Mary	54		3 Cutler
*Fougere, Phillip Lawrence	V 56	*Westboro*	
*Fox, David Israel	H g	*Newark, N. J.*	11 Hawthorne
Franzen, Lincoln Arvidson	56		8 Rustic Dr.
Freed, Lawrence	57		1 Manila
Freeman, Richard Paul	54		5 Norwood
Fregans, Janet Mae	55	*Holden*	
*French, Bruce Stannis	57	*Palmer*	Estabrook Hall
*French, Donald Taylor	56		70 Moore Ave.
Frye, Franklin Pierce, Jr.	V 55	*Manchester, N. H.*	48 Downing
Gallant, Gerard Adolph	V 54	*Gardner*	
Gamache, Barbara Ann	57	*Shrewsbury*	
*Ganji, Mohammad H.	G F	*Tehran, Iran*	143 Woodland

Name	*Classification*	*Home Address*	*Local Address*
Gannon, Joan Wilder	54		28 Wayne
Gans, Paul Stephen	56	*Brooklyn, N. Y.*	989 Main
Garon, Diana	57	*Portland, Me.*	Blakeslee House
Garrigus, Woodford McDowell	V G g	*Ashland, Ohio*	2 Claremont Sq.
Gauch, Ruth Magdalene	54		43 Dellwood Rd.
Gauld, William John, Jr.	57	*Sterling*	
George, John Louis	G g, S	*Danvers*	
Gerrol, Melvin H.	55		3 Bellavista Rd.
Gerrol, Robert	57		3 Bellavista Rd.
Giannitrapani, Duilio	Ps F		5 Norwood
Giardiello, Michele Albert	V 56	*Roslindale*	59 Maywood
*Gibbons, William Michael	57		57 Downing
Gilrein, Suzann Mary	55		21 Woodland
*Giuffrida, Matthew Roland	V 54		197 Belmont
Goldfaden, Allen Robert	V Ec F	*Norwich, Conn.*	7 Kilby
Goldman, Alfred Emmanuel	V Ps g	*Allston*	
Goldstein, Julian Morton	55	*New York, N. Y.*	100 Woodland
Good, Robert E.	56	*New York, N. Y.*	70 Maywood
Goodfellow, Margaret Joan	G S	*Plaster Rock, New Brunswick Canada*	15 Gates
Goodman, Alan Stanley	V 56		50 Copperfield Rd.
Goodstone, Lee Holbrook	55	*Needham Heights*	6 Downing
Gordon, David Fletcher	56		3 Dorothy Ave.
Gottlieb, Mrs. Selma Bernice	54		86 Longfellow Rd.
*Gould, Harold Darling, Jr.	s	*Blackstone*	
Grace, Doreen	56		41 Kinnicut Rd.
Gramlich, Michael Joseph	V 56	*Bronx, N. Y.*	15 Harvard
Greenbaum, Joan Beverly	54	*Elizabeth, N. J.*	Blakeslee House
Greene, Waldo Robert	57	*Albany, N. Y.*	Estabrook Hall
Greenwood, Louise Hunter	56	*Millbury*	
Greer, Philip Wight	V 55		205½ Lincoln
Grigas, William Anthony	57		43 Providence
Grossman, Hedda Ruth	55	*Bronx, N. Y.*	Fanning House
Guerrin, Robert Francis	55	*Flushing, N. Y.*	11 Hawthorne
Gurry, Donald Bruce	55	*New York, N. Y.*	40 Richards
Guthrie, Sally Irene	55		8 Prudence
Haas, Virginia Marie	57		21 Lorenz
Hadjoglou, Christina Mary	57	*Webster*	
Hagopian, Miasnig	Ch g	*Providence, R. I.*	222 Maple Ave., Shrewsbury
Haidas, Christos	57		22 Hudson
Haims, Bruce	56	*New York, N. Y.*	40 Richards
Haith, William Lawrence	V 54	*Southbridge*	
Hall, Lytle Foster	V 55	*Cincinnati, O.*	40 May

Name	*Classification*	*Home Address*	*Local Address*
*Halpern, Fred	57	*Brooklyn, N. Y.*	941 Main
Ham, Leroy Henry, Jr.	V 55		150 Beaver Brook Parkway
Handleman, Esther Heller	H S	*Rochester, N. Y.*	974 Main
Handleman, Paul Edwin	55		10 Wamsutta Ave.
Hanson, Richard Allen	57	*Northboro*	
*Harbester, Emerson Victor, Jr.	s	*Rochdale*	
Harlow, Robert Granville	Ps g	*Lowell*	
Hartwell, Barbara Jane	55	*Leominster*	
Harvey, Edythe Marilyn	57	*Shrewsbury*	
Hassan, Hashim Abdul	56	*Karbala, Iraq*	50 Woodland
Hastings, Andrew Dewey, Jr.	V G F	*Newport, N. H.*	7 Kilby
Haupt, Carolyn Edith	57	*New Haven, Conn.*	Fanning House
Hawkes, Ethel Louise	57	*Warren*	Fanning House
Hayes, David Goodwin	57		19 Circuit Ave.
Hedenstad, Norman Richard	s		914 Main
Henderson, Richard Knight	V 56		21 Crawford
Herman, John Bernard	55	*Millbury*	
Herman, Sidney	Ec g	*Boston*	
Heroian, Ara Paul	V 55		165 Dewey
Hersch, Charles	Ps g	*Cambridge*	
Heyer, Paul Joseph	G g	*Rochester, N. Y.*	16 Claremont
Hickey, Joseph Edward, Jr.	54	*Holden*	
Higgins, Mary Ann	54	*Scarsdale, N. Y.*	Woodland House
Hill, Lennard Allan	57	*Milford*	Estabrook Hall
Hoffner, Herbert Howard	55	*Arverne, N. Y.*	100 Woodland
*Holden, Raymond Henry	V Ps F	*Providence, R. I.*	
Holmes, Robert Philip	55	*Whitinsville*	6 Downing
Houghton, Anne Louise	57	*Hudson*	Woodland House
Houghton, Charles	56	*Hudson*	
Hubbard, Alfred	57	*Farnumsville*	Estabrook Hall
Hubbard, Winifred Ray	s	*W. Boylston*	
Hughes, Vincent Leo	Ch F		20 Hancock
Hulbert, Clifton Henry	Ed g		105 June
Hulbert, William Marshall	57	*S. Sudbury*	Estabrook Hall
Hurwitz, Neal Jay	56	*Putnam, Conn.*	35 Maywood
Hurwitz, Theodore Herbert	V 55	*Putnam, Conn.*	21 Geneva
Hutchinson, Charles Kenneth	55	*Milford*	16 Marble
Hutchinson, Robert Henry	V Ed g		29 Shaffner
*Hutchinson, Thomas Clement	s	*Des Moines, Ia.*	Holy Cross College
Hytiainen, Helen Marie	Ch F	*Auburn*	
Iarussi, Louise	55	*Framingham*	Blakeslee House
Inglessis, Criton S.	Ch S	*New York, N. Y.*	1 Hancock
Isaacson, Stephen	56	*Brooklyn, N. Y.*	1020 Main
*Italiano, Armando Robert	56		38 Shamrock

Name	*Classification*	*Home Address*	*Local Address*
Jackola, Ann Marie	56	*Oakdale*	
Jaffe, Kayla Miriam	Ps g	*Brooklyn, N. Y.*	
*Jandron, Roland Leo	V 54	*Oxford*	
Jennings, Sandra Paula	56	*Stratford, Conn.*	Fanning House
Jigarjian, Harold Charles	Ch S	*Whitinsville*	145 Woodland
Johanson, June Ingrid	57	*Forestville, N. Y.*	Blakeslee House
Johnson, Anna Ottoson	54	*Holden*	
Johnson, Ann Carolyn	54		1 Ivanhoe Rd.
Johnson, Carle Albert, Jr.	57	*Laconia, N. H.*	Estabrook Hall
Johnson, Lane Joseph	G S	*Denver, Colo.*	7 Kilby
Johnson, Nancy Ann	55		447 Grove
Johnson, Richard Skerry	V 57	*Holden*	
Johnson, Walter Bernard	56		65 Gates
Johnston, David Bergen	V 56		20 Anderson Ave.
Johnstone, Patricia Ramsey	57		14 Burncoat Ter.
Jolie, Richard Norman	57	*Auburn*	
Jones, George Charles	V 56	*N. Adams*	Green's Trailer Park
Jordan, Edward John, Jr.	Ps S	*Hamden, Conn.*	8 May
Jowise, Janet Helen	56	*Long Island City, N. Y.*	Woodland House
*Kabadian, Edward, Jr.	56		41 Coes
Kaden, Stanley Edward	Ps g	*Brookline*	38 Merrick
Kagan, Richard Allan	57	*Chelsea*	Estabrook Hall
Kajander, Vivian Sylvia	57	*Gardner*	Fanning House
Kalat, Mrs. Joan Odlin	Ec g	*Holden*	
Kane, Benson	B g		63 Brownell
Kane, William Francis, Jr.	V G S	*Marlboro*	9 Hawthorne
Kapanen, Mrs. Elaine Revolti	55	*Fitchburg*	
Kaplan, Mrs. Edith F.	Ps F		6 Gates
Karaku, Demeter Theodore	V 54		12 Winfield
Katz, Mildred	55		3 Zenith Dr.
Kay, Marjorie Alice	56		46 Leeds
*Keating, Janis Ford	s		29 Sunnyhill Dr.
Keenan, Elizabeth Louise	54		10 Edwidge
*Keith, Preston Bond	s	*Brockton*	7 Richards
Kelley, Donald Lapan	V B g		24 Newbury
Kelley, Mrs. Dorothy M.	Ed s		16 Oread
Kelly, John Joseph	V 56		31 Blossom
Kelly, Maureen Ellen	54		62 Sever
Kemp, James Malcolm	V Ed g	*Belchertown*	
Kiakis, Helen	57		16 Healy Rd.
King, Robert Fabian	55	*Holden*	
King, Valerie	54		19 Pine Tree Dr.
Kirshenbaum, Sanford Marshall	55	*Warrington, R. I.*	36 Richards
Kittredge, Margaret Anne	54		72 Morningside Rd.
Klein, Benjamin Z.	56		5 Montvale Rd.

Name	*Classification*	*Home Address*	*Local Address*
Klein, Stanley Howard	56	*Brooklyn, N. Y.*	931 Main
Klem, Bernard Alan	57	*Milford*	Estabrook Hall
Knowlton, George William	V s		470 Salisbury
Konjoian, Isabel Katherine	54		27 Russell
Koskinas, Christe Frank	54		134 Russell
Kottis, Anna Angela	56	*Uxbridge*	Fanning House
Koutsoubas, George William	55		10 Newton Ave.
Kraidman, Emma	Ps S	*Brooklyn, N. Y.*	24 Gates
*Krajewski, Edward Joseph	s		5 Norwood
Kruger, Mrs. Alice Kastenbaum	Ps F		25 Catherine
Laakso, William Bruce	57	*Gardner*	Estabrook Hall
LaBrie, Donald Richard	55	*Auburn*	
Lacoste, Roger Gerard	Ch S	*Willimansett*	25 Hollywood
Lacouture, Alphonse Leon, Jr.	V 54	*Millbury*	
*Lafleur, William Joseph	s	*Hookset, N. H.*	934 Main
Laine, Norman Raymond	55		42 Velander
Lajeunesse, Robert Lucien	V 57	*Putnam, Conn.*	Estabrook Hall
Lamberto, Nunzio Anthony	V 57	*Clinton*	
Lambros, Frank Harry	V 54	*Dudley*	
Lamm, Irwin Stuart	55	*New York, N. Y.*	100 Woodland
Lander, Ernest Mayer	56	*Caribou, Me.*	10 Charlotte
Lander, Robert Harvey	56	*Caribou, Me.*	10 Charlotte
*Lane, John Everett	V Ps g		Worcester State Hospital
Lapham, Brent Anderson	57	*New Haven, Conn.*	13 Gates
Larson, Jane Louise	B g	*Leicester*	
Lasoff, Arthur Malcolm	55	*W. Newton*	9 Wyman
Latino, Anna Terese	57		8 Channing
Lavendier, Raymond Thomas	V 54		7 Mt. Vernon
Lavigne, Paul Taylor	V 56		20 Sherbrook Ave.
Lawrence, Ira S.	56	*Brooklyn, N. Y.*	36 Richards
Lawton, Robert Earl	54	*Loudonville, N. Y.*	35 Maywood
Lazarus, George Milton	54		30 Irving
Leavitt, David Ashley	57	*Scarsdale, N. Y.*	Estabrook Hall
Lee, Arthur B.	57	*Brooklyn, N. Y.*	Estabrook Hall
Leger, Eugene Henry	V 55		15 Preston
Lemanski, Frances Ann	57, s		12 Alpine
Lenentine, Charlotte Maxine	H F	*Monticello, Me.*	54 Morningside Rd.
LeVasseur, Virginia Ann	54		7 Wakefield
Levey, Marilyn	57		40 Aetna
Levison, Bruce Edward	57	*Brooklyn, N. Y.*	Estabrook Hall
Levison, Peter Coleman	54	*Brookline*	59 Maywood
Levy, Robert Bernard	55	*Portland, Me.*	939 Main
Lincoln, Ralph Patterson	56	*Barre*	40 Richards
Lindberg, Charles Arthur	V 54		12 Crystal
Lindblom, Barbara Jane	56		51 N. Worcester Ave.

Name	*Classification*	*Home Address*	*Local Address*
Lingner, Robert Earle	54		220 Webster
Lockhart, John	V s		28a King
Logue, Donna Marie	57	*Marcellus, N. Y.*	Fanning House
Long, Harriet Ruth	V G F	*Cambridge*	24 Gates
Longo, Nicholas Augustus	56	*Putnam, Conn.*	35 Maywood
Lopez, Manuel Dennis	V 56	*Westfield*	8 Silver
Love, Joy Churston	Ec S	*Northumberland, England*	9 Burgess Rd.
Lovett, Katherine Wheeler	57	*Putnam, Conn.*	Fanning House
Lubitski, Carl James	57	*Oakville, Conn.*	Estabrook Hall
Lubowitz, Herbert	54		10 N. Woodford
*Lucas, Mrs. Agnes P.	Ed S		54 Morningside Rd.
Lumsden, William Robert	V 54	*Douglaston, N. Y.*	6 Richards
Lynch, Frances Elizabeth	56	*Marlboro*	Woodland House
Lyon, Richard, Jr.	V Ed g	*Hubbardston*	
MacConnell, Gary	56	*Granville, N. Y.*	36 Richards
Mackun, Stanley	G S	*Middleboro*	6 Downing
Madaus, George Francis	H g		41 Forbes
Magiday, Kenneth	56	*Bronx, N. Y.*	40 Richards
Mahar, John William	55	*Braintree*	9 Wyman
Malankowski, Anthony John	V 54	*Maspeth, N. Y.*	364 Lincoln
Mallen, Phyllis Toby	54		6 Farnum Ter.
Manos, Victoria	56		70 Russell
Manson, Michael Leonard	57	*Bronx, N. Y.*	Estabrook Hall
Margolis, Barnet Norman	57	*Brookline*	Estabrook Hall
Markham, Robert Andrew	54	*Fitchburg*	
Martin, Alice Louise	55		45 Merrick
Martin, Richard Raymond	V Ed g	*Holden*	
*Martus, Mrs. Lois Rodenstein	54	*Natick*	
Maso, Maria B.	G g	*Havana, Cuba*	2 Claremont Sq.
Mate, Brian	55	*Rockaway Beach, N. Y.*	36 Richards
Mathews, Constance Anne	55		50 Eunice Ave.
Matthew, David Vandlan	56	*W. Berlin*	
Maxham, David Earl	V 57	*Worcester, Vt.*	Estabrook Hall
McCabe, Edward Francis	H S	*Sayre, Pa.*	11 Hawthorne
McCarron, Paul John	Ed g		64 Locust
McCarthy, Paul James	Ch F		Holy Cross College
McGranaghan, William Joseph	V 54	*Northboro*	
McKie, Margery Anne	54	*Sherman, Texas*	Elmwood St., Millbury
McManus, Francis Joseph	V 54		18 Sturgis
McQuaid, Robert Allen	56	*Stafford Springs, Conn.*	36 Richards
McSherry, Francis Joseph	V 54		982 Main
Meissner, Philip George	V B S	*Little Neck, N. Y.*	40 Richards
Melvin, Paul Alan	55		216 Mountain
Mendoza, Walter Edward	V Ed g	*Millis*	79 Beacon St., Athol
Merzigian, John	V 57		67 Dewey

Name	*Classification*	*Home Address*	*Local Address*
Mess, Irwin Howard	57		94 Houghton
Michalski, Jan Kasimir	54		15 Vernon
Mihajlov, Vsevolod	Ch S		727 Main
Miles, Donna Ann	56	*Holden*	
Miller, Frederick Carl	Ec F	*London, Ontario*	Fairlawn Circle Shrewsbury
*Miller, James Merle, Jr.	H F	*Kansas City, Mo.*	171 Woodland
Miller, Lois Marian	Ed g		18 Dellwood Rd.
Mishler, Audrey	Ps F	*Long Island City, N. Y.*	974 Main
Mitchell, Clara Evelyn	56	*Newark, N. J.*	Woodland House
Moniz, James	V 56	*Auburn*	
Morgan, Mary Byrne	56		32 Hadwen Lane
Morgan, Mrs. Marylin Coombs	G S	*Westerly, R. I.*	24 Shirley
Morgantini, Dean Francis	54	*W. Pittston, Pa.*	17 Crystal
Morin, Edward Marshall	57		48 Midland
Morin, Mrs. Gertrude G.	s		32 Maplewood Rd.
Morin, Marilyn Natalie	56		32 Maplewood Rd.
Morin, Richard Michael	57		105 Longfellow Rd.
Morrill, Herbert Louis	57	*Spencer*	146 Fremont
Morrison, Donald Lyman	57	*W. Millbury*	
Moschos, Iphigenia	54		21 Morningside Rd.
Multer, Raymond Bertram	56	*Far Rockaway, N. Y.*	Estabrook Hall
Muollo, Henry Robert	56	*E. Boston*	
Murphy, Charles Joseph	54	*Framingham*	
Myatt, Wilfred Gervais	V G F	*Corvallis, Ore.*	Estabrook Hall
Nader, Michael Anthony	56		392 Shrewsbury
Nagle, Mary Elizabeth	54		138 June
Nathan, Joseph	56	*Far Rockaway, N. Y.*	100 Woodland
Nazemi, Said	55	*Tehran, Iran*	35 Maywood
Newell, Alan Hobart	s		218 West
Nichols, John Francis, II	57	*W. Hartford, Conn.*	Estabrook Hall
Noponen, Francis William	V 56		24 Loudon
Norcross, Carol Evelyn	56	*Poughkeepsie, N. Y.*	Blakeslee House
Noumoff, Samuel Joseph	56	*Brooklyn, N. Y.*	7 Kilby
Novick, William John	Ed g		4 Chapin
Oakes, Mrs. Nancy Holmstrom	56	*Holden*	
O'Brien, William Paul	54		139 Lincoln
Ockerbloom, Nelson Edwin	Ch S	*Longmeadow*	11 Hawthorne
Odenigwe, Godwin Anibeze	H S	*Nigeria, W. Africa*	50 Woodland
Oickle, George Bradford	57		26 Herault Rd.
Olson, Donald Hillier	56		2 Chalmers Rd.
Olson, Marjorie Louise	55		85 Downing
O'Malley, Ann Elizabeth	s	*Springfield*	145 Woodland
Oram, George Henry, Jr.	V 56	*Marlboro*	6 Richards

Name	*Classification*	*Home Address*	*Local Address*
Osborne, William Adolphus	Ec F	*Georgetown, Brit. Guiana*	111 Beacon
Otto, Adrienne	55	*Holden*	
Pallas, Chris George	55		58 Andover
Palmer, Judith Ann	57		32 Leeds
*Pappas, Harry James	56	*Webster*	
Parmenter, Franklin David	57	*Orange*	Estabrook Hall
*Patt, Herman George	B g	*West Brookfield*	
Patterson, Janet Ann	B S		17 Rockdale
Patterson, Robert Hornby	55	*Attleboro*	21 Shirley
Pawlina, Frank Edwin	V 56	*Woonsocket, R. I.*	
Pelletz, Stanley Jordan	54		76 Vassar
Perlman, Robert	56		1026 Main
Perry, Jane Frances	54		154 Lovell
Peterson, Mrs. Janet Wolske	54	*Holden*	
Peterson, Ruth Carolyn	56		158 Vernon
Petridis, Adrianne Elizabeth	57	*Hyannis*	Fanning House
Phelan, John Joseph	55		146 Eastern Ave.
*Phelps, Ronald Lincoln	56	*W. Boylston*	
Picard, Claude L.	Ps g	*Stockbridge*	
Pinchak, Joan Ruth	57	*Paterson, N. J.*	Fanning House
Piñero, Haydee	54	*Canovanas, P. R.*	Fanning House
Pitt, John Ronald	57		54 Catharine
Podell, Mrs. Harriett Amster	Ps S	*Philadelphia, Pa.*	332 Stafford
Podell, Jerome Edward	Ps g	*Philadelphia, Pa.*	332 Stafford
Pollinger, Elaine	56	*Brooklyn, N. Y.*	Blakeslee House
Potter-Bernier, Elaine Isabel	55	*New Bedford*	Blakeslee House
Powell, Arnet Lauriston	Ch g	*Natick*	
Power, Patricia Rose	57		114 Brookline
Pratt, Allen Currier	V Ed g	*Greenfield*	Airport Rd., N. Grafton
Pratt, William Bertram	G S	*Rochester, N. Y.*	11 Hawthorne
Prensner, Richard William	55		43 Forest
Price, Malcolm Ivan	57	*Clinton*	Estabrook Hall
*Propper, Richard A.	57	*New York, N. Y.*	Estabrook Hall
Pusateri, Vincent Peter	55		5 Astrid Ave.
*Quirk, Mary Jane	56	*Leominster*	Fanning House
Raeff, Mrs. Lillian	Ps F		989 Main
Raphaelson, Arnold Herbert	Ec g		90 Lakewood
Rassias, John Nicholas	55		20 Hackfeld Rd.
Rauscher, William Charles	56	*Stratford, Conn.*	60 Beaver
Reddington, Eleanor Burnap	55		8 Dixon Ave.
Resh, Fred Leonard	57	*Providence, R. I.*	Estabrook Hall
Ribner, Herbert	s	*New York, N. Y.*	34 Vassar
Richard, Alfred Joseph	Ch S	*Gardner*	78 May

Name	*Classification*	*Home Address*	*Local Address*
Richason, George Robert, Jr.	Ch g	*Amherst*	
Ricker, Frances Emily	H g	*Portland, Me.*	4 Cabot
Riordan, Joan Frances	55	*Holden*	
*Ritz, Irving	V 57		31 Wabash Ave.
Rizkalla, Janet Catherine	54		15 Acton
Roberts, Joan Bernice	55	*Millbury*	
Rodier, Ruth Elizabeth	54	*Oxford*	
*Rogers, Kenneth Harrison	57		304 Lovell
Rogers, Ryland Fuller	V 56		6 Prouty Lane
Rogosin, Rhoda Gilda	55		19 Tahanto Rd.
Rosen, Carl Sanford	54	*Brooklyn, N. Y.*	40 Richards
Rosenbaum, Marvin	54	*Fitchburg*	
Rosenberg, Henry Ernest	55	*Hempstead, N. Y.*	37 May
Rosengart, Carl Lester	55	*Arverne, N. Y.*	Estabrook Hall
Rosenthal, Marion Anne	56	*Far Rockaway, N. Y.*	Fanning House
Roulet, Mary Anne	56	*Medusa, N. Y.*	Woodland House
Royston, Patricia Mae	55	*Auburn*	
Ruck, Carl Anton P.	57	*Stratford, Conn.*	Estabrook Hall
*Rudman, Paul Edward	55		17 Bluebell Rd.
Russell, David Alan	55	*Auburn*	
Russell, John Page	s	*Wyncote, Pa.*	6 Humboldt Ave.
Sachs, Edward	54	*Bridgeport, Conn.*	36 Richards
Sacovitch, William James	57		8 Quinsigamond Ave.
Salo, Lennart Reino	55		17 Orne
Saltzman, Henry Victor	55	*New Bedford*	100 Woodland
Samaha, Frederick James	56		32 Ashwood
Samara, Lorice Helen	56		49 Arthur
*Sanderson, Richard James	56	*Delmar, N. Y.*	36 Richards
Sands, Richard D.	G F	*Chicago, Ill.*	6 Downing
Sarando, Minerva Mildred	54		12 Page
Sardonini, Joseph Michael	56	*Milford*	
Saunders, Ralph Howard	54		3 Kingsbury
Scarborough, John Robert	V 54		56 Cohasset
Schanberg, Saul Murray	54	*Clinton*	69 Maywood
Scheel, Eugene Mehlman	57	*New Rochelle, N. Y.*	Estabrook Hall
Schiff, Mortimer	54	*Newton*	
Schotte, Carol Hazel	55		18 Brighton Rd.
Schulhof, Celia Lila	54	*Athol*	Woodland House
Schulhof, Diane Irma	55	*Athol*	Blakeslee House
Schultz, Barbara Joan	57		31 Lenox
Schultz, Gerald Walter	V G F	*Waterloo, Ia.*	9 Hawthorne
*Schwartz, Sol	57	*New York, N. Y.*	Estabrook Hall
Schwartzkopf, Susan	57	*New York, N. Y.*	Blakeslee House
Schweitzer, Jerome Howard	55	*Wellesley*	
Sears, Keith Gaskin	57	*Woodstock, Conn.*	

Name	*Classification*	*Home Address*	*Local Address*
Sergent, Dorothy Joan	57	*Rutland*	10 Burgess Rd.
Shamoian, Charles Anthony	54		28 Belmont
Shapira, Nathaniel Abram	55	*Brockton*	14 Oberlin
Shapiro, Bernard David	57	*Forest Hills, N. Y.*	Estabrook Hall
Shapiro, Paul Jay	57	*New Haven, Conn.*	Estabrook Hall
Shaughnessy, Anna Camilla	Ed g		28 Maywood
Sheleg, Boris	56	*Stratford, Conn.*	32 Oberlin
Shepeluk, Wasily, Jr.	55		61 Rodney
Sher, Gary	56	*Brooklyn, N. Y.*	40 Richards
Sherburne, Edwin Eugene	55	*Manchester, N. H.*	34 Gates
Shippee, Barbara Lucille	54	*Shrewsbury*	
Shirley, Harry Pickford, Jr.	54		6 Maravista Rd.
Showket, Azza	57	*Baghdad, Iraq*	76 Maywood
*Showket, Ibrahim	G F	*Baghdad, Iraq*	76 Maywood
Shulman, Davida Elaine	57		37 Dellwood Rd.
*Shwadran, Benjamin	H g	*Jersey City, N. J.*	37 May
Siegel, Rolland V.	55	*New York, N. Y.*	35 Maywood
Sigalis, William Charles	55		10 Cottage
Simmons, Elise	G S	*New Bedford*	15 Gates
Simmons, Enid	56	*Livingston, N. J.*	Woodland House
*Simon, Arleen	54	*Passaic, N. J.*	Woodland House
Simonian, Jean Marion	54		53 Ellis Dr.
*Simpson, Mrs. Dorothy Holm	s	*S. Woodstock, Conn.*	
Singer, Shirley Sally	56	*Brooklyn, N. Y.*	Woodland House
Sinnery, Donald James	57		2 Ontario
Sivert, Sandra King	55	*Clinton*	Blakeslee House
Slater, Donald	57	*New York, N. Y.*	Estabrook Hall
Smelewicz, William Patrick	V 57		3 Ingalls
Smith, Harry William, Jr.	56	*Auburn*	
Smith, Ida	54	*Mendon*	
Smith, Jacqueline Dora	B g	*Hubbardston*	
Smith, Marc Paul	55		3 Tahanto Rd.
Smith, Raymond Rodolphe	V 55	*Westboro*	
Smith, Theodore Rubin	57	*Bronx, N. Y.*	Estabrook Hall
*Snelling, Marjorie Eunice	56	*Spencer*	
Snow, Suzanne Braun	57		69 Hadwen Rd.
Snyder, Alan Michael	57	*Staten Island, N. Y.*	Estabrook Hall
Snyder, Ronald Fred	56	*Albany, N. Y.*	40 Richards
Sobel, Marlene Charlotte	56	*Waterbury, Conn.*	Woodland House
Solomon, Seymour Arnold	55		11 Russell
Somers, Michael Eugene	V B g	*Bridgeport, Conn.*	17 Crystal
Sparicio, Frank Joseph	G g, S	*Everett*	4 Hancock
*Spencer, Carole Ann	57	*Millbury*	
Spurr, Arnold Newton	57	*Southboro*	
*Stachelczyk, Anthony Simon I.	55	*Clinton*	

Name	*Classification*	*Home Address*	*Local Address*
Stahl, Harriet Joyce	57	*New Haven, Conn.*	Fanning House
*Stanhope, Russell Herbert	Ed g		20 Rich
Stanick, John Bernard	V 54	*Webster*	
Stead, Mrs. Anna Marie	Ed g		24 Tiverton Pky.
Stead, Mrs. Isabelle M.	Ed g	*Auburn*	
Stein, Heinz Thomas	Ps S	*Amsterdam, Netherlands*	4 Hartshorn Ave.
Steinberg, Lloyd Bernard	57	*Scarsdale, N. Y.*	Estabrook Hall
Steinberg, Norman	56		80 Houghton
Steinbrecher, Stephen	55	*Westport, Conn.*	36 Richards
Stekler, Herrmann Otto	55		55 Wachusett
Stern, Albert	56	*New York, N. Y.*	939 Main
Stern, Austin Chadwick	54	*Coral Gables, Fla.*	35 Maywood
*Stern, Erna	s	*Orange, N. J.*	YWCA
Sternberg, Ralph	H g	*Newark, N. J.*	905 Main
Stewart, Lauraine Mae	54	*Dalton*	Fanning House
Still, Gerald Maxwell	56	*New Haven, Conn.*	Estabrook Hall
Stinchfield, Carleton Paul	Ch g		40 Gifford Dr.
Stoddard, Donald Fuller	V 54		16 Gates
Stout, Gretchen Beatrice	54	*New York, N. Y.*	Woodland House
Strandberg, Victor Hugo	57	*Upton*	
Streichler, Allan M.	56	*Brooklyn, N. Y.*	36 Richards
Sullivan, Donald William	V 54	*Gilbertville*	59 Maywood
Sullivan, Neil Joseph	55	*Gilbertville*	
Sundquist, Birgit Marie	55		53 Uncatena Ave.
Surawski, Zigmont John	56		41 Hooper
Suzuki, Yukiko	56	*Tochigiken, Japan*	Blakeslee House
Tateosian, John	55		129 Belmont
Tatro, Clifton Laurence	V H g	*Baldwinville*	
Taylor, Alvin Elliott	55	*Deering, N. H.*	16 Marble
*Tetreault, Napoleon Albert	56	*Sterling, Conn.*	8 Silver
Thamel, Theodore Stone	54		27 Langdon
Theriault, Francis Noel	54		38 Woodland
Thomas, Daniel Walter	Ch g		5 View
Thomas, Jeanette McPherson	57	*Bergenfield, N. J.*	Woodland House
Thomashow, Saul Leonard	56		965 Pleasant
Thompson, Richard Gerald	56		3 Minthorne
Thompson, Shelby Walker	56	*Wellesley*	Woodland House
Thurston, Anthony Warren	V 54	*Morningdale*	
Tibbetts, Robert Austin	55		6 Salisbury Crag
Todd, Robert Edward	V Ed g		162 Highland
Tomajan, Carol	55	*Holden*	
Tonseth, Harold Leif E.	54	*Marlboro, N. H.*	162 Highland
Trachtenberg, Naomi Etta	56	*Brooklyn, N. Y.*	Woodland House
Traina, Angelo John	56	*Flushing, N. Y.*	36 Richards
Trask, Harvey Julian	56	*Upton*	

Name	*Classification*	*Home Address*	*Local Address*
Traub, Mrs. Lois Speckter	55	*Southbridge*	
Troianello, Emilio Joseph	Ch F	*Lawrence*	40 Richards
Trowbridge, Anthony Dyke	V 55		12 Tuller Rd.
*Tsourides, Konstantine Nicholas	57		219 Harding
Tucker, Barbara Ann	57		40 Brighton Rd.
Tucker, Edwin C.	Ch g		380 May
Turkson, Yaw Bamful	56	*Gold Coast, Brit. W. Africa*	5 Mt. Pleasant
Utsunomiya, Takeshi	56	*Tokyo, Japan*	156 Woodland
Valente, Louis John	56	*Milford*	
VanDerbilt, Bertha Elizabeth	G S	*Indianapolis, Ind.*	31 May
Van der Linden, Alfonsus J.	s		670 W. Boylston
van Leeuwen, Adrian Eric	54		9 Euclid Ave.
Varma, Kripa Nath	G F	*Ghazipur City, U. P., India*	Estabrook Hall
Varney, Charles Broadwell	G F	*Denver, Colo.*	4 Downing
Vierstra, Andrew, Jr.	56	*Whitinsville*	
Villa, Luis Alberto	55	*Medellin, Colombia, S. A.*	11 Charlotte
Von der Heide, John Thomas, Jr.	54, H g	*Scarsdale, N. Y.*	9 Hawthorne
*Von Holt, Henry William, Jr.	Ps g	*Portland, Ore.*	Worc. State Hosp.
Waddleton, William John	V 56	*Oxford*	
Wait, Albert Huntoon, Jr.	57	*Waban*	Estabrook Hall
*Wall, Gregory Wayne	56	*Rochester, N. Y.*	Estabrook Hall
Warden, William Ernest	55	*Oxford*	
Wardwell, Anne	57	*Amherst*	Fanning House
Ware, Barbara Ann	56		32 Irving
Warfield, Joan	57		21 Arletta Ave.
Warwick, Joan Edna	55	*Upper Saddle River, N. J.*	Blakeslee House
Waterman, Nancy Mayo	G F	*Hanover, N. H.*	46 Tirrell
Webster, Lindsley Elliott	H S	*Ithaca, N. Y.*	15½ King
Weinstein, Alan Lewis	57		33 Beeching
Weisenberg, Gerald Melvin	57	*Brooklyn, N. Y.*	Estabrook Hall
Weisman, Burton Stuart	56		26 Loxwood
Weiss, Ann Elizabeth	57	*Arlington, Va.*	Fanning House
*Weiss, Frank	57	*Far Rockaway, N. Y.*	Estabrook Hall
Weisselberg, Edward Bernard	56	*Leonia, N. J.*	11 Charlotte
Weller, Arnold Clare, Jr.	55	*Rutland*	35 Maywood
Wentzell, Homer Philbrick	Ec ~~S~~ F	*Somerville*	42 May
West, Joseph Wallace	57		32 Lincoln
Wheeler, Roy Harold	54		6 Cheever
Whitney, Alden Eames	55		4 Saxon Rd.
Whitney, Dorothy Nina	55	*Oxford*	Fanning House

Name	*Classification*	*Home Address*	*Local Address*
Wicks, Robert Haskell	55		44 Bellevue
Williams, Harry Emanuel	57	*Shrewsbury*	
Williams, Harvey Louis	54		538 Mill
Williams, Roger Irving	55		10 Cedar
Wilson, Carol	Ed g		11 Berwick
*Wilson, Kenneth Robert	55	*Townsend Harbor*	16 Marble
Winter, Lewis Jasper	V G F	*E. Stroudsburg, Pa.*	7 Kilby
Witt, Albert Vito	Ed g	*Leicester*	
Wolfe, Jane Margaret	s	*Fitchburg*	
Woodis, Ruth Grosvenor	Ed g		26 Haviland
Wooten, Lois Gertrude	57		85 Eunice Ave.
Wray, Norman Leslie	54	*Wilkinsonville*	
Wright, Robert Lewis	56		84 May
Wuethrich, Chris John	57	*Newton*	Estabrook Hall
Wylan, Louise Mary	56	*Long Island City, N. Y.*	Fanning House
Yaffe, Monte Earl	56	*Newton*	
Yarrington, Ruth Avis	56	*Grafton*	
Young, Donald Roland	57	*Arverne, N. Y.*	Estabrook Hall
Young, Mrs. Helen Troy	H g		53 Elm
Zakrzewski, Walter, Jr.	54		53 Upsala
Zaltas, Arnold Irving	55	*Natick*	47 Midland
Zamanigian, Elizabeth Barbara	56		118 Eastern Ave.
Ziarko, Margaret A.	57	*Webster*	
Zolnowski, Elizabeth Ann	55		59 Seymour
Zura, Dorothy Elaine	57	*Providence, R. I.*	Fanning House

I (2). GRADUATE STUDENTS, COLLEGE STUDENTS AND SPECIAL STUDENTS IN ATTENDANCE DURING THE SECOND SEMESTER ONLY

Name	*Classification*	*Home Address*	*Local Address*
Adamson, Thelma Elaine	57	*Flushing, N. Y.*	Woodland House
Allard, William Cheney	57		44 Volkmar Rd.
Babigian, Arthur Anthony	V 57		7 Hudson
Callan, Barbara Ann	Ed g		67 Fairfax Rd.
Chin, Ruby T. T.	s		5 Fiske
Cooperman, Edward Charles	57	*Brooklyn, N. Y.*	Estabrook Hall
DeVries, Charles Otis	57	*Oxford*	
Dodge, Shirley Mae	Ed S	*Auburn*	
Doran, Mary Agnes	Ch g		356 Chandler
Filipov, George Alexander	V 57		8 Jaques Ave.
Foskett, Daniel Osgood	56	*Dodge*	Worc. State Hosp.
Frankel, Joel Howard	57	*Brooklyn, N. Y.*	40 Richards
Gens, Stephen Herbert	57	*Brookline*	21 Shirley
Goldman, Alfred Emmanuel	Ps g	Bronx, N.Y.	1 Islington Ter., Allsto
Goldstein, Alvin George	Ps F	Brooklyn, N.Y.	7 Kilby

Name	*Classification*	*Home Address*	*Local Address*
Hostettler, John Bradwell	57	*Springfield*	
Hutchinson, William Albert	V 57		8 Beckman
Kaminski, Donald Francis	V 57	*West Boylston*	
Kelley, Justin John	Ed g		490 Grove
Kersch, Edward Sheldon	G g	*Detroit, Mich.*	78 May
Komers, Inge Maria	57	*Brookline*	77 Amherst
LaConte, Richard D.	57		37 Alvarado Ave
Lipkin, David Lawrence	57	*Brooklyn, N. Y.*	Estabrook Hall
Martel, Raymond Joseph	Ed g		10 Dallas
Micuta, Jurate Emily	57		159 Vernon
Mulligan, William Dunning	s		393 Pleasant
Mysliwiec, Jane Frances	56		56 Dorchester
Mulholland, Thomas B.	Ps g		
Platt, Stephen Jay	57	*New York, N. Y.*	Estabrook Hall
Rickards, Reese Stanley	57	*Auburn*	
Rodger, Howard Chase	57	*Hudson*	
St. Martin, Paul A.	57	*Lowners, N. Y.*	226 Dewey
Savulis, Mrs. Winifred	Ed S	*Auburn*	
Schoolman, Leonard Arthur	57	*Brooklyn, N. Y.*	Estabrook Hall
Showket, Mrs. Subhia Mikdadi	54	*Baghdad, Iraq*	76 Maywood
Stoddard, Judith	s		19 Monmouth Rd.
Stone, Wentworth Lincoln	V 57		338 June
Suleiman, Fuad Khalil	57		127 Beacon
Swanson, Richard F.	s	*Millbury*	
Stout, Thomas McBride	s		3 Tuckerman
Trachy, Elizabeth	55		City Hospital
Yung, Robert Chin Ning	57	*New York, N. Y.*	51 Institute Rd.
Zajac, Leo Walter	V 57	*Ware*	
Ziegler, Barry	57	*New York, N. Y.*	Estabrook Hall

I (3). STUDENTS IN RESIDENCE LESS THAN ONE SEMESTER

Anthony, Perry Burrington, Jr.	56
Burdett, Charles Fred, II	57
Byman, Helena Urania	56
Downes, George Andrew, Jr.	Ed g
Foskett, Paul Emerson	56
Gonsalves, Manuel Joseph	V 57
Gould, Loren Nelson	G g
Groccia, Frank Edward, Jr.	56
Johnson, Peter Roosevelt	s
Keel, Mrs. Frances Bradford	56
Kelland, Frank Sydney	G g
Krawczynski, Thaddeus Mitchell, Jr.	56
Lominsky, Richard Francis	57
Marrino, Joseph Leonard	V 57
Mayo, Arthur Edward	V 55
Norwich, John Francis	Ch V g
Ritter, Martin	56
Sim, Victor Wallace	G g
Williamson, Janet	54
Wisniowski, Edward R.	Ec S

II. SUMMER SCHOOL STUDENTS—1953

Andrews, Forrest, Uxbridge
Angelos, James T., Fitchburg

Bailey, Elaine C., St. Johnsbury, Vt.
Bell, Dorothy, Shrewsbury
Berg, Natalie M., Worcester
Bergman, Anna M., Auburn
Boucher, Phyllis R., No. Grafton
Burkill, Gracia M., Spencer
Burton, Warren H., Jr., West Chester, Pa.

Carson, Deane C., Worcester
Cohen, Charlotte R., Worcester
Copeland, Janet, Leicester
Cormier, Carlton F., Marlboro
Coupe, George A., Worcester
Crowley, James C., Worcester
Cushing, John D., Northfield, Vt.
Cutler, Ethel B., Worcester

del Olmo, Ginés, Merida, Venezuela
Derosier, Robert F., Leominster

Ericson, Vivian C., Auburn

Feeley, Joseph C., Worcester
Fermin-Gomez, Mercedes, Caracas, Venezuela
Fregans, Janet M., Holden

Good, Robert E., New York, N. Y.
Goss, Robert W., Fitchburg
Grant, Barbara A., Worcester
Greelish, Virginia A., Worcester

Hamilton, Mrs. Helen M., West Boylston
Haslam, Philip S., Shrewsbury
Herman, John B., Millbury
Herman, Sidney, Boston
Hesselton, Doris F., Worcester
Hoaglund, Ralph D., Worcester
Hokanson, A. Linnea, Worcester
Howe, Priscilla M., Worcester
Hulbert, Clifton H., Worcester
Hutchinson, Robert H., Worcester

Jackson, M. Shepard, Worcester
Johnson, Margery R., Worcester

Kabadian, Edward, Worcester
Karaku, Demeter T., Worcester
Kelly, Maureen E., Worcester
King, Valerie, Worcester
Koch, Forrest E., Sullivan, Mo.
Koki, Lillian, Worcester
Kosciuszko, Raymond J., Worcester

Lambros, Frank H., Dudley
Lambros, Freda, Dudley
Lasmane, Elfrida, Holden
Lavelle, Peter F., Clinton
Laws, John S., Worcester
Leavitt, Phillip A., New York, N. Y.
Lee, Dou H., Seoul, Korea
Letteri, Joseph P., Meriden, Conn.
Lianides, Christo W., Worcester
Ljungberg, Doris R., Worcester
Lorah, Robert W., Liverpool, Ohio
Lorys, Josephine E., Great Barrington
Lynch, John X., Worcester

Mackun, Stanley, Middleboro
MacQueen, Beatrice A., Worcester
Madaus, George F., Worcester
Mann, Marie L., Hanover, Indiana
Martel, Raymond J., Worcester
McCarron, Paul J., Worcester
Michalski, Jan K., Worcester
Miller, Lois M., Worcester
Morin, Shirley R., Uxbridge

Nimtz, Carl F., Wheelwright

Olson, Marjorie L., Worcester
O'Malley, Ann E., Springfield
Osborn, William A., British Guiana

Peacock, H. Lee, Jr., Waldoboro, Me.
Pelletz, Stanley J., Worcester
Perlman, Robert, Worcester
Piopi, Mary L., Southbridge

Potvin, Paul C., Worcester
Powers, Frances M., Holden

Rimbach, Douglas O., Sterling
Rollins, Joseph J., Worcester
Rourke, John F., Millbury
Russell, David A., Auburn

Schuster, Ann F., East Douglas
Shaughnessy, Anna C., Worcester
Shaw, Arnold R., Worcester
Shawkey, Ada M., Framingham
Silver, Gladys F., Worcester
Simmons, Elise, New Bedford
Sparicio, Frank J., Everett
Stachelczyk, Anthony S., Clinton
Stanhope, Russell H., Worcester
Starbird, Myron E., Farmington, Me.
Symonds, Merrill A., Worcester

Thamel, Theodore S., Worcester
Tudor, Blanche R., Webster
Turo, Anthony J., Shrewsbury

Underwood, Joseph E., Fitchburg

Valk, Robert F., East Douglas

Weiner, Robert S., Ossining, N. Y.
West, Togo D., Winston-Salem, N. C.
Wolinski, Rene M., Curriba Parana, Brazil
Woodis, Ruth G., Worcester

Zischika, Paul L., Auburn

III. STUDENTS IN THE EVENING COLLEGE, 1953-54

Adamian, Nellie F., Worcester
Adams, Bradford S., Millbury
Adams, Everett S., Oxford
Adams, Gloria, Worcester
Adams, Marjorie L., Worcester
Aharonian, Donald J., Worcester
Aho, Lee O., Southbridge
Alexanderian, Dorothy, Worcester
Almgren, Ruth M., Worcester
Anber, Beatrice A., Worcester
Anderson, Alice E., Worcester
Anderson, Nancy M., Worcester
Andrews, Nicholas V., Worcester
Andriski, Antoinette A., Clinton
Angelico, Lucy S., Worcester
Armenti, Ralph A., Worcester
Asadoorian, Shirley R., Worcester
Aspinwall, Frederick J., Manchaug
Asselth, Gloria A., Worcester
Atwood, Virginia L., Worcester
Aukstuolis, Francis A., Worcester
Ayer, Ruby H., Worcester

Baer, Elizabeth A., Worcester
Baldwin, Leonard, Jr., East Douglas
Baljian, Vahe V., Worcester
Barker, Julia R., Worcester
Barre, Clarence J., Webster
Bashios, Irene A., Worcester
Basiulis, Gediminas M., Worcester
Bachelder, Robert M., Holden
Bauer, Frederick H., Holden
Beardsley, Charles M., Worcester
Beaudin, Marcia R., Spencer
Begley, Harold J., Worcester
Bell, Elizabeth A., Holden
Benaglia, Marjorie L., Worcester
Benjamin, Howard B., Worcester
Benjamin, Richard W., Worcester
Bennett, Bertha L., Westminster
Benuskavich, Daniel J., Worcester
Berger, Pauline E., Fitchburg
Bergstrom, Axel B., Auburn
Berry, Carroll T., Auburn
Bilazarian, Ruth, Boylston
Bilzerian, Esther, Worcester
Bilzerian, Helen, Worcester
Birch, Francis L., Worcester
Bisson, David A., Worcester
Blair, Mildred M., Worcester
Bogoian, George N., Worcester
Boss, Adrienne S., Worcester
Bouchard, Virginia C., Holden
Bouffard, Albert J., Worcester
Bousquet, Hermidas A., Southbridge
Boyajian, Parouhi, Worcester
Boyajian, Torkom, Worcester
Brady, Georgia F., Paxton

Braos, Vasie M., Southbridge
Brown, Mrs. Martha L., Worcester
Brown, Richard C., Worcester
Brunell, Joseph C., Worcester
Brunnschweiler, Tamara, Worcester
Buckley, James T., Worcester
Burke, Catherine, Worcester
Burke, Eileen E., Worcester
Burns, Patricia A., Worcester
Buyniski, J. Rose, Worcester
Buyniski, Julius, Worcester
Buyniski, Wanda H., Worcester

Cadieux, Roland W., Worcester
Caldbeck, Charlotte J., Worcester
Calfaian, Charlotte, Worcester
Calfaian, Helen, Worcester
Campbell, H. Jean, Worcester
Campbell, Robert F., Worcester
Carlan, Alan J., Southbridge
Carlan, Audrey M., Southbridge
Chaffee, Richard J., Oxford
Chahinian, Loussarpi E., Worcester
Chamberlayne, Agnes M., Worcester
Chandler, Marguerite L., Worcester
Chesebrough, Wilfred, Southbridge
Choiniere, Jacqueline, Worcester
Christo, Peter J., Worcester
Ciborowski, Elaine M., Worcester
Ciullo, Albert B., Worcester
Clark, Roger D., Oxford
Cockrell, Frances, Worcester
Cogoli, Daniel J., Worcester
Coleman, Francis J., Worcester
Comstock, George Edward, III, Holden
Costa, Nicholas J., Southbridge
Cote, Barbara J., Worcester
Cowland, Marilyn F., Millbury
Crickard, Lois J., Worcester
Cromwick, Thaddeus F., Worcester
Cronin, James F., Framingham
Crossman, Dorice L., Clinton
Culbert, Lila T., Worcester
Cunningham, Richard M., Ashburnham
Curtis, William A., Jr., Leominster

Davidian, David B., Worcester
Day, Donald C., Worcester
Deeb, Edward N., Jefferson
Defalco, Francis P., Worcester
Degnan, Helen C., Worcester
Del Sole, Nicholas J., Worcester
Demerjian, Anne, Worcester
Demers, Muriel B., Worcester
Deranian, Hagop M., Worcester
Dillon, Charles F., Worcester
Ditch, Sophie, Charlton
Ditzel, Gunther F., Worcester
Doherty, Edward J., Jr., Worcester
Dowden, Vera M., Worcester
Driscoll, Rita D., Fitchburg
Drohan, Richard H., Worcester
Dunn, James P., Worcester
Dunn, Robert P., Shrewsbury
Dupsha, Albert R., Warren
Durden, Joyce A., Ft. Devens
Durning, John E., Worcester
Duxbury, Clifford S., Jr., Worcester
Dykstra, Gladys M., Whitinsville

Eid, Joseph R., Worcester
Ekblaw, Elsa May, No. Grafton
Ekstrom, Dagney E., Worcester

Falconer, Astrid H., Auburn
Farrell, Thomas F., Worcester
Fassett, Mary H., Worcester
Feeney, Ruth T., Worcester
Ferris, John P., Worcester
Finneran, Rita E., Worcester
Fischer, Constance R., Worcester
Fisher, William T., Putnam, Conn.
Flaherty, James D., Worcester
Flaherty, Lawrence J., Worcester
Fleming, Michael F., Worcester
Flynn, Charles R., Worcester
Foley, Elizabeth M., Worcester
Foley, Joann M., Worcester
Forge, Ralph J., Worcester
Fougere, Phillip L., Westboro
Foy, George A., Worcester
Freeland, Frederic J., Worcester

Gallio, Dolores C., Worcester
Gamari, Francis J., Worcester

Gammon, Allie K., Worcester
Gardinier, Shirlee J., Worcester
Garrepy, Earle C., Worcester
Gartshore, Thomas E., Lancaster
Gauch, Ruth M., Worcester
Gerden, Helen V., Westboro
Gibbs, Richard W., Worcester
Golden, Helen R., Shrewsbury
Gordon, Robert A., Worcester
Grace, Albert H., Worcester
Granlund, Earl W., Worcester
Grant, Joseph J., Worcester
Green, Arnold J., Worcester
Gregory, Harold A., Worcester
Gudzevich, Emily, Worcester
Gustafson, Pauline M., Worcester

Hagstrom, Mary F., Worcester
Hakey, Albert J., Worcester
Hakim, Adnan J., Shrewsbury
Hall, Norma G., Uxbridge
Hall, Susan R., Jefferson
Hamilton, Helen M., Worcester
Hannah, James A., Webster
Hanson, Howard F., Holden
Hanson, Martha E., Holden
Hanson, Richard B., Worcester
Harmon, Beverly O., Worcester
Haroian, Rose D., Worcester
Harriman, Mrs. M. Evelyn, Worcester
Hartshorn, Dorothy Mary, Gardner
Hartwell, Barbara J., Leominster
Hartwell, Edward F., W. Boylston
Hartwell, Marjorie L., W. Boylston
Hatjakos, Helen A., Worcester
Hawkes, Richard N., Worcester
Hayward, James J., Worcester
Hebenstreit, Marlene F., Worcester
Heckman, Mary A., Worcester
Herrick, Mary A., Westboro
Hiatt, Mrs. Jacob, Worcester
Hobbs, Margaret, Spencer
Hodgkins, Linnwood L., Worcester
Holmes, Eileen O'M., Clinton
Horgan, David A., Worcester
Houlihan, Ann G., Worcester
Hovagimian, Satenig, Worcester
Hughes, Mrs. Elizabeth G., Cherry Valley
Husisian, Sona, Worcester
Hutchinson, William A., Worcester

Irwin, Marguerite M., Worcester

Jackson, Harold C., Jr., Worcester
Jane, Jean S., Whitinsville
Johnson, Nancy A., Worcester
Johnson, Robert E., Auburn
Jones, Clayton A., Worcester
Jones, Mary K., Worcester
Jordan, Harold V., Sterling
Jordan, Paul L., Lancaster
Judd, Mrs. Janet, Hudson
Jundanian, Joseph G., Whitinsville

Kalousdian, Agnes A., Whitinsville
Kapanen, Elaine B., Fitchburg
Kaplowitz, Harry, Worcester
Kaprelian, Ruth, Westboro
Kavonian, Richard K., Boston
Kavoogian, Dorothy S., Shrewsbury
Keefe, Jean M., Worcester
Keeler, William S., Sutton
Keisling, Russell M., Clinton
Keith, Norma C., Worcester
Keljikian, Anahid R., Worcester
Kelleher, Geraldine M., Worcester
Kelly, Maureen E., Worcester
Kenney, Elizabeth C., Worcester
Kilcoyne, John F., Worcester
Killoran, John F., Worcester
Kilton, Dorothy G., Worcester
Knowlton, Shirley E., Fitchburg
Krag, Ernest C., Worcester
Kukmanowski, Alex J., Worcester
Kullenberg, Verner M., Worcester

Labovites, Pericles T., Worcester
Lachapelle, Russell J., Millbury
Laird, Florence L., Worcester
Lalikes, James, Shrewsbury
Lambert, Christy D., Worcester
Lane, David, Worcester
Lane, Esther P., Worcester
LaPierre, Richard A., Leicester

LaPointe, Raymond F., Worcester
Lasberg, Tamara, Worcester
Lavigne, Lawrence A., Worcester
Lavine, Miriam, Worcester
Leahy, Paul T., Worcester
Leahy, Vincent P., Worcester
LeBlanc, Alice L., Southbridge
Leeman, David J., Worcester
Lennard, Iva M., Worcester
Levenson, Aven S., Worcester
Lightman, Eileen, Milton
Lingis, Mary J., Worcester
Lipkin, David L., Brooklyn, N. Y.
Ljungberg, Lois M., Worcester
Loughlin, William J., Worcester
Lowe, William G., Worcester
Luby, James C., Worcester
Lukshis, Aldena P., Worcester
Lundberg, Raymond T., Holden
Lussier, John A., Auburn
Lynskey, Mrs. Christine, Clinton

MacKinnon, Robert G., Southbridge
MacPhee, Charles H., Auburn
MacQueen, Donald E., Worcester
Maddocks, Marie L., Whitinsville
Madore, Honore J., Southbridge
Mahan, Kenneth F., Worcester
Makinen, Reino J., Fitchburg
Malbon, Edith R., Spencer
Mallen, Phyllis T., Worcester
Maloney, John M., Shrewsbury
Maloney, Martin M., Worcester
Mancewicz, Helen, Worcester
Mange, Jackie S., Worcester
Manna, Angela G., Worcester
Mansfield, Robert W., Worcester
Marcinkiewicz, Josephine F., Worcester
Marley, Violet M., Worcester
Martel, Doris G., Cherry Valley
Martel, Wilfred H., Cherry Valley
Martin, Alice L., Worcester
Mason, Albert A., Jr., Barre
Mason, Mildred M., Worcester
Matthews, Elton L., Shrewsbury
Matthews, Joseph K., Worcester
Matthews, Olive H., Worcester

Maynard, Donald B., Jr., Holden
McCartan, Laura A., Worcester
McCauliff, Robert F., Paxton
McDonough, Gertrude T., Worcester
McFadden, James F., Worcester
McGrail, Francis S., Worcester
McInerny, Marguerite E., Worcester
McKenzie, Robert K., Worcester
McSherry, James C., Jr., Spencer
Medhurst, Ronald G., Northboro
Menegeni, Anthony J., Barre Plains
Merrill, Anne P., Worcester
Miller, Herbert F., Worcester
Milliken, Nancy J., Millbury
Miner, Anne K., Fitchburg
Mirick, Albert H., II, Worcester
Mitrush, Meta, Worcester
Mohan, Bernard F., Worcester
Monfreda, Ralphaela A., Worcester
Mongilio, Robert A., Millbury
Montag, Mae N., Worcester
Mooney, Edith L., Worcester
Moore, Raymond W., Uxbridge
Moran, Raymond K., Worcester
Moriarty, Marion L., Worcester
Moriarty, Richard W., Petersham
Morin, Marshall D., Worcester
Mulevicious, Peter P., Northbridge
Mullan, Elizabeth J., Fitchburg
Munster, Marguerite I., Clinton
Murphy, Mary M., Worcester

Nanof, Theodore, Worcester
Naritelli, Dorothy V., Webster
Nelson, Donald R., Worcester
Nelson, Geraldine A., Oakdale
Nesta, Sophia, Oxford
Newell, Carolyn F., Spencer
Newman, Arthur L., Worcester
Noonan, Marie C., Worcester

O'Brien, Kathleen A., Worcester
O'Connell, Patricia R., Whitinsville
O'Day, Dorothy E., Fitchburg
O'Donnell, Ruth, Worcester
O'Halloran, Lillian M., Worcester
Olson, Alice G., Worcester

O'Malley, Ann E., Worcester
Osborn, Marie H., Holden
Oveson, Margaret, No. Grafton

Palulian, Rose, Worcester
Papazian, Betty, Worcester
Paquette, Royal F., Worcester
Pearson, Charles L., Worcester
Peepas, Theofanis Z., Worcester
Perkins, Mary M., Lancaster
Perry, Roger N., Jr., Holden
Peterson, Arthur J., Worcester
Pierce, John E., Worcester
Plakstis, Peter J., Jr., Worcester
Plant, Phyllis E., Worcester
Plaza, Carl W., Webster
Plucinski, Walter P., Worcester
Polanyi, Michael L., Webster
Porter, Gerald D., Worcester
Powers, Lael H., Northboro
Prunier, Louis, Oxford

Rackauskas, Grace E., Worcester
Raileanu, Jordan D., Worcester
Reidy, Anna T., Worcester
Reil, William V., Worcester
Remian, Henry W., Southbridge
Ricciardi, Michael J., Worcester
Rich, Ralph C., Worcester
Richards, Gladys E., Worcester
Richer, Joseph P., Worcester
Ringoen, Andrew T., Worcester
Riordan, Joan F., Holden
Ritz, Irving, Worcester
Rivers, Henry C., Worcester
Rizkalla, Janet C., Worcester
Robbins, Sandra B., Worcester
Robillard, Roger J., Worcester
Robinson, Sally E., Worcester
Rockwell, Earl A., Sterling
Rogers, Richard A., Shrewsbury
Romano, Palmira E., Fitchburg
Romeo, Sophie A., Worcester
Rose, Pauline S., Holden
Ross, Emily A., Worcester
Ross, Henry A. C., Leicester
Rossman, Paul, Worcester
Roy, Arthur A., Southbridge
Russell, Frederick W., Petersham

Saltus, Samuel G., Worcester
Samara, Lily, Worcester
Sanderson, Robert A., Shrewsbury
Sandman, Jordan, Worcester
Sandquist, Eric W., Worcester
Santoian, Sherman H., Worcester
Saunders, Anne C., Worcester
Saunders, Mae L., Shrewsbury
Saunders, Marion F., Worcester
Savulis, Anthony V., Auburn
Schaffer, Sheldon, Worcester
Scheve, William J., Jr., Worcester
Schott, Rosemary, Clinton
Senter, Kenneth A., Worcester
Shackelford, Nancy, Worcester
Shamoian, Charles A., Worcester
Sharfman, Amalie S., Worcester
Sheehan, Patrick V., Worcester
Shogran, Mrs. Dorothy, Worcester
Shooshan, Anthony, Worcester
Silverman, Marshall, Worcester
Silverman, Richard J., Worcester
Simmons, Joan E., Worcester
Simonian, Jean M., Worcester
Simons, Leatrice R., Worcester
Singer, Paul P., Worcester
Sinnott, Patricia R., Worcester
Slechta, Betty, Worcester
Sogigian, Mrs. Harry, Worcester
Solomon, Gertrude, Worcester
Sommerfeld, Edna E., Worcester
Sotir, Sam V., Southbridge
Splaine, Mary K., Worcester
Stafford, Priscilla M., Webster
Start, Jane T., Worcester
Steffon, Mary A., Grafton
Stevens, Raymond F., Jr., Worcester
Stone, Louise J., Millbury
Strong, Agatha F., Worcester
Sugihara, Fumi, Worcester
Sullivan, Elizabeth I., Worcester
Surprenant, Richard, W. Boylston
Sutherland, David E., Worcester
Sweet, Howard A., Worcester

Sweet, Hubbard D., Worcester
Swenson, Robert A., Worcester
Swierzbin, Edward, Southbridge
Swift, Thomas S., Worcester
Swydan, Dorothy I., Worcester
Swydan, Henry, Worcester

Tanguay, Lorraine T., Worcester
Taylor, Arlynn A., Webster
Thamel, Ophelia P., Worcester
Tisdell, Merle R., Worcester
Totas, Joseph E., Worcester
Tower, Jane, Petersham
Traub, Alan C., Southbridge

Tymon, Thomas L., Worcester

Van Dien, John A., Worcester

Wagenaar, Jenney, Whitinsville
Waldron, Murray E., Auburn
Weinberger, Leon J., Clinton
Wheeler, Dorothy Ann., Worcester
Wheeler, Ruth, Worcester
White, Loretta N., Worcester
Wojnarowicz, Thadeus, Worcester

Young, Eleanor F., Worcester

Zayonc, Frank J., Worcester

SUMMARY (1953-54)

			Men	*Women*	*Total*
Undergraduate Students	*Men*	*Women*	406	182	588
Freshmen	117	53			
Sophomores	105	46			
Juniors	103	39			
Seniors	81	44			
Graduate Students			110	43	153
Special Students			17	10	27
Summer School (1953)			62	41	103
Evening College			153	219	372
Total			748	495	1243
Less Duplications			30	25	55
Net Total			718	470	1188

Degrees Conferred

In the Calendar Year 1953

BACHELOR OF ARTS

Robert Stanton Allard
Marilyn Alpart
Marcia Rita Beaudin
Robert Rock Belliveau
Hilda Berkowitz
*Frederick William Blais
*Americo Salvator Boffoli
Walter Edward Boryczewski
Harry Caldwell Briggs
Blossom Sheila Brooks
Jean Anne Bruso
Richard Baker Bult
Richard Fuller Bumer
Yolande Marie Chartrand
Aldona Janina Chekas
*Francis Paul Cipriani
Carolyn Janet Clark
Yvonne Marcelle Clavien
  with High Honor in General Course
  and with Honors in Romance Languages
Milton James Cooke
Alan George Coulter
*Hope Barbara Cowen
  with High Honor in General Course
  and with Honors in Psychology
*Earl Leonard Croman
Herbert Floyd Crovitz
  with Honors in Psychology
Howard Monroe Cunningham, II
Maryjane Elizabeth Curran
Nancy Lillian Curtis
Robert Morrison Doris, Jr.
  with Honor in General Course
  and with Honors in History and
  International Relations
George Andrew Downes, Jr.
Oscar LeRoy Dube
Jocelyn Ann Dugas
Steve Charles Dune
  with Honor in General Course and
  with Honors in Economics and
  Sociology
*Alyne May Eaves
Nancy Marie Erickson
Gerald David Falk
John Warren Fetherolf
Joyce Kay Fischer
*William Matthew Fitzgerald
Ann Marie Flynn
Jerome Fox
  with Honors in Economics and
  Sociology
Robert Carl Frodigh
Stanley John Gadomski
Richard Gordon Gilbert
Elizabeth Asher Ginsburg
  with Highest Honor in General Course
  and with Honors in Psychology
*Norma Josephine Goldman
  with High Honor in General Course
Edward Thomas Goodlight, Jr.
Loren Nelson Gould
*Robert Edmond Graf
Howard Herman Greene
Marjorie Annette Gullberg
Pauline Marilyn Gustafson
  with High Honor in General Course
  and with Honors in English
Charles Edward Hackett, Jr.
Phyllis Evelyn Haidukiewicz
Beverly Haslam
*George Najeb Hayeck
Ernest Herbert Hayhow
Raymond Joseph Hebert
Louise Hightaian
Grace Louise Hook
Barbara Louise Hopkins
Valeda Carolyn Hudson
Yolanda Agnes Hug
  with High Honor in General Course
Richard Charles Hutchinson
  with High Honor in General Course
Mary Kathryn Jones
Dorothy Sitinick Kavoogian
  with High Honor in General Course
Donald Lapan Kelley
*Walter Amandus Kistler
*Stanley Melvin Klainer
Edward Joseph Krajewski
Ann Teresa Larava
  with High Honor in General Course
  and with Honors in Classics
Jane Louise Larson
John William Lauler, Jr.
Lucille Therese Leger
*Robert David Lindstrom
John Lockhart
Jameson David MacFarland

---

*Degree awarded "as of" June 8, 1952.

Grace Anne Manning
Norman Albert Martel
Richard Raymond Martin
William Snyder Maynard
Joanne McDonald
Anna Theresa McDonough
Dorothy Bernardine McGrath
John Carberry Meade
Lois Marian Miller
  with Honors in Economics and Sociology
Barbara Ann Milton
*Howard Ralph Morey
Philip Francis Mulvey, Jr.
Arthur Chandler Murdock
George Nicholas Nasse
John Peter Nazarow
Polly Katherine Nelson
Richard Andrew Nelson
Chloe Adele Nester
Daniel Mordecai Newman
Gerald Earl Norman
William John Novick
  with Honors in English
Marilyn Bernardine Nylin
Elaine June Parsley
Wayne Everett Patterson
Ernest Gerard Phoenix
John Constantine Polymeros
Patricia Ann Putnam
Rose Marie Radzik
Marella Deighton Rimbach
David Erickson Sawyer
  with Honors in Physics
Esther Frances Sher
Paul John Sorvo
Marilyn Joan Steeves
  with Honor in General Course
Paul William Sternlof
Basil Stavros Strates
William Thomas Sullivan
Richard Frederic Sussman
Genevieve Agnes Szerlag
Jeanne Tait
Constance Thayer
Daniel Walter Thomas
Albert Joseph Tomolonis
Theodore Albert Tromovitch
Elliott Dean Turnbull
Judith Ann Ungar
  with Honor in General Course and with Honors in Government
*Irma Waterman
Charles Ellison Webster
Amorette Grace Weed
Diane Eleanor Wheeler
  with High Honor in General Course
Dorothy Ann Wheeler
Richard Andrew White
Albert Vito Witt
Robert Kasimir Yakutis
  with Honors in Fine Arts
Helen Troy Young
  with Honor in General Course
Russell Paul Zetterlund
Jurgita Constance Zimavicius

BACHELOR OF BUSINESS ADMINISTRATION

Gunnar Bjork Anderson, Jr.
Walter Leslie Arbo
Hugh Christy Bacon
  with Honors in Business Administration
Stuart Read Bagni
Pierre Leo R. Benoit
William Elliott Bernstein
*John Michael Budwick, Jr.
Ronald Chester Buzzell
William James Coulter, Jr.
*Frank William D'Amico
Russell Alvin Dickison
William James Ehrmanntraut
Martin Feinberg
Henry Paul Finnegan
*David Carleton Gaskell
*Wesley Reginald Giles
William Frederic Hausrath
  with Highest Honor in General Course and with Honors in Business Administration
Albert Leonard Johnson
Norman Johnston
  with Honors in Business Administration
Masami Lawrence Kimura
*Noel John Maghak
James John Mangano
*John Charles Manoog, Jr.
Ernest Robert Menelly, Jr.
*Heraklis George Petrakogeorges
Melvin Morton Rosenblatt
  with Honor in General Course
Henry Washington Stone, Jr.
Richard Thomas Strozina
Albert Wilfred Surprenant, Jr.
*Ronald William Thibideau
*Robert Edward Vigneault
*Albert Joseph Walsh
Harry James Warms

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*Degree awarded "as of" June 8, 1952.

BACHELOR OF EDUCATION

Mildred Louise Kingsbury

MASTER OF ARTS

Theodore Oboo Asare, Jr.
William Frederick Beemer
Frank Howard Bellinger
Janis Voldemars Celinskis
Francis Joseph Craven, Jr.
Jean Louise Cronin
Dorothy Mildred Day
Lawrence Michel Delliquadri
William Hammond Farrell, Jr.
Mary Catherine Foster
Ian Shenstone Fraser
Duilio Giannitrapani
Paul Stephen Greenlaw
Gerald Harry Hones
Irving Edward Howard
Stanley Edward Kaden
Charlotte Maxine Lenentine
Charles Gradie Levo, Jr.
Curtis Vanderbilt Martin
Gilbert Francis Mueller
John Edward O'Shea
Paul Anthony Prince
James Emrys Pugh
Francis Joseph Robitaille
Sawat Senanarong
Chester Edward Smolski
David Zalman Tavel
Ray Wentworth Tobey
Adrian Weston Vander Pyl
Charles Broadwell Varney
Paul Weiner
Charles Williams-Baffoe

MASTER OF ARTS IN EDUCATION

Frederick William Blais
Kathleen Ciprian Coutu
Virginia May Hegvig
Reino Ilmari Kallio
Robert Edward King
Richard Alan LaPierre
Henry Anthony Ozimek
Donald Everett Smith
Harriet Elaine Sternberg
Kenneth Leslie Willard

DOCTOR OF PHILOSOPHY

Alexis Adrian Babineau
Robert William Baker
Jan Herbert Bruell
Kenneth Ashton Chandler
Robert Bryce Gorrell
Eleanor Elizabeth Hanlon
Albert Havens Jackman
Donald Ellis Johnson
Bernard Kaplan
Oliver Herman Laine
Edward Emile LeClair, Jr.
Stanley Harold Lofchie
Bernard Mirin
Samuel Maurice Osgood
Robert Harvey Pollack
Stephen Thomas Riley
Kurt Heinz Stern
John Lewis Taylor

HONORARY DEGREES

Leonard Carmichael	Doctor of Letters
Robert William Glenroie Vail	Doctor of Humane Letters
Clinton Hartley Grattan	Doctor of Letters
Grayson Louis Kirk	Doctor of Laws
Charles Henry Sawyer	Doctor of Humane Letters

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CLARK UNIVERSITY

Sixty-fourth Annual Commencement

Worcester Memorial Auditorium

SUNDAY, JUNE 6, 1954

MDCCCLXXXVII

WORCESTER, MASSACHUSETTS

Order of Exercises

Processional	
Grand March (from *Aïda*)	*Verdi*
Invocation	The Reverend Paul J. Tillich, D.D. Professor of Philosophical Theology, Union Theological Seminary
Welcome by the President	
Commencement Address	Sir Douglas Berry Copland, K.B.E. Australian High Commissioner to Canada
Conferring of Degrees	
Benediction	The Reverend Paul J. Tillich, D.D.
Recessional	
March on College Airs	

The audience will kindly remain
standing during the recessional

Candidates for the Degree of Bachelor of Business Administration

John Stanley Adamsky, Jr.
*Edward Cyril Ahern
Richard Joint Baker
Elden George Berthold, Jr.
Bertil Carl Blomgren
*George Hagop Boole, Jr.
William Frederick Bruso
Bernard Dennen Callahan
Robert Paul Couillard
James William Daly
Charles Allen DeMerritt, Jr.
Gerard Adolphe Gallant
*Abdul Rashid Ismail
Roland Leo Jandron
Christe Frank Koskinas
Frank Harry Lambros
George Milton Lazarus
Francis Patrick McCarney, Jr.
Francis Joseph McManus
Dean Francis Morgantini
Charles Joseph Murphy
Stanley Jordan Pelletz
Marvin Rosenbaum
Ralph Howard Saunders
Ida Smith
John Bernard Stanick
Donald Fuller Stoddard
Harold Leif Eric Tonseth
*Holmes Vinton Tracy, Jr.

Candidate for the Degree of Bachelor of Business Administration with Honor

Norman Walter Couch, Jr. *with Honors in Business Administration*

**As of June 7, 1953*

Candidates for the Degree of Bachelor of Arts

Donald John Aharonian
Barbara Norris Anderson
*Constance Ernest Andreson
James Thomas Angelos
Robert Edmond Avey
Warren Rud Babor
Marcel René Benjamin
Richard Paul Besnia
*Edwin Carpenter Bliss
John Earl Bley, Jr.
Edward Bloch
Gerald Alan Bloomgarden
Patricia Benton Bowker
John Douglas Bragg
Shirley Hope Brotherton
Georgiana Mae Charron
Eugene Sheu Theung Chin
Janet Louise Companion
Paul Cromidas
Dominic Stephen D'Angona
Roberta Louise Davis
Sallye Joyce Dawson
Irwin Lawrence Dickman
Robert Collyer Douthit
Rae Edythe Downey
Daniel Joseph Ehrlich
Alan David Elbein
*Joseph Carmel Feeley
Constance Rose Fischer
Elizabeth Mary Foley
Gladys Mary Forzley
*James Alexander Givan, Jr.
Selma Bernice Gottlieb
Joan Beverly Greenbaum
William Lawrence Haith
Mary Ann Higgins
*Ralph Donald Hoaglund
Anna Ottoson Johnson
Anne Carolyn Johnson
Demeter Theodore Karaku
Elizabeth Louise Keenan
Maureen Ellen Kelly
Isabel Katherine Konjoian
Alphonse Leon Lacouture, Jr.
Barbara Shippee LaRocque
*Elfrida Lasmane
Raymond Thomas Lavendier
Robert Earl Lawton
Virginia Ann LeVasseur
Robert Earle Lingner
Anthony John Malankowski
Phyllis Toby Mallen
†Carl Yale Malmquist, Jr.
*Leo Leamy Mann
*Stanley Joseph Mann
Robert Andrew Markham
Lois Marion Martus
Margery Anne McKie
Francis Joseph McSherry
Iphigenia Moschos
Mary Elizabeth Nagle
William Paul O'Brien
*Harold Lee Peacock, Jr.
Janet Frederika Peterson
Haydeé Piñero
*James Francis Riordan
Janet Catherine Rizkalla
Ruth Elizabeth Rodier
*Joseph James Rollins
Carl Sanford Rosen
Edward Sachs
Minerva Mildred Sarando
Saul Murray Schanberg
Celia Lila Schulhoff
*Allen Joseph Sevigny
Charles Anthony Shamoian
Harry Pickford Shirley, Jr.
Subhia Mikdadi Showket
Arleen Simon
Jean Marion Simonian
Austin Chadwick Stern
Lauraine Mae Stewart
Gretchen Beatrice Stout
*Earl Robert Taylor
Theodore Stone Thamel
Anthony Warren Thurston
John Thomas Von der Heide, Jr.
*Bertram Braithe Walker
Roy Harold Wheeler
Walter Zakrzewski, Jr.

**As of June 7, 1953*
†As of June 2, 1944

Candidates for the Degree of Bachelor of Arts with Honor

Robert Burns Barker *with Honor in General Course*

David MacGregor Burton *with Honor in General Course*

Richard David Carlson *with Honors in Chemistry*

Carolyn Ann Erickson *with Honor in General Course and with Honors in Economics and Sociology*

Richard Bruce Erickson *with Honors in Geography*

Ruth Magdalene Gauch *with Honors in Romance Languages*

Matthew Roland Giuffrida *with Honor in General Course*

Joseph Edward Hickey, Jr., *with Honors in Geography*

Margaret Anne Kittredge *with Honor in General Course and with Honors in Romance Languages*

Peter Koleman Levison *with Honor in General Course and with Honors in Psychology*

Charles Arthur Lindberg *with Honors in Geography*

Herbert Lubowitz *with Honor in General Course*

John Robert Scarborough *with Honors in Philosophy*

Francis Noel Theriault *with Honors in Economics and Sociology*

Candidates for the Degree of Bachelor of Arts with High Honor

Jane Frances Perry *with High Honor in General Course*

Adrian Eric van Leeuwen *with High Honor in General Course and with Honors in Philosophy*

Harvey Louis Williams *with High Honor in General Course*

Candidates for the Degree of Master of Arts in Education

Helen Maxwell Hamilton

William John Novick

Russell Herbert Stanhope

Candidates for the Degree of Master of Arts

Biology

Philip George Meissner
Janet Ann Patterson

Chemistry

Amilcare Biancheria
Haig Cadmus Donoian
Helen Marie Hyytiainen
Roger Gerard Lacoste
Vsevolod Mihajlov
Nelson Edwin Ockerbloom

Economics and Sociology

David Franklin Edwards, Jr.
Warren Keith Heckman
Joy Churston Love
Walter Shaw McLean

Geography

Lane Joseph Johnson
William Francis Kane, Jr.
Frank Sydney Kelland
Marylin Coombs Kelland
Etha Marie Pruser

History and International Relations

Virginia Anne Aldrich
Esther Heller Handleman
George Francis Madaus
Godwin Anibeze Odenigwe
Robert Daniel Weitzel, Jr.

Physics

Gregory Louis Boisvert

Psychology

Herbert Floyd Crovitz
Harriett Amster Podell

Candidates for the Degree of Doctor of Philosophy

Chemistry

Michael John Skrypa

Economics and Sociology

Robert Alfred Nelson

Geography

Jen-Hu Chang
John Henry Dean
Mohammad Hassan Ganji
Joseph Bixby Hoyt
Herman L Nelson
Azra Husain Rahman-Khan
Ibrahim Showket

History and International Relations

Harold Walter Adams

International Affairs

Lester Wendell Trueblood

Psychology

Joseph Church
Irving Hurwitz
Alice Kastenbaum Kruger
John Everett Lane
Herbert Lipton
Robert Caesar Misch
Mary Tewksbury Wilson

Conferring of Honorary Degrees

LOUIS TEN EYCK THOMPSON *Doctor of Science*

Presented by Percy Martin Roope

PAUL JOHANNES TILLICH *Doctor of Humane Letters*

Presented by Karl John Richard Arndt

DOUGLAS BERRY COPLAND *Doctor of Laws*

Presented by James Ackley Maxwell

HOMER PAYSON LITTLE *Doctor of Laws*

Presented by David Potter

ORDER OF AHEPA PRIZE FOR EXCELLENCE IN GREEK

David Alan Russell

THE SANFORD MEMORIAL SCHOLARSHIP FUND

Alden Eames Whitney

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

First Prize: Edward Bernard Weisselberg

Second Prize: Donald William Slater
Anna Ottoson Johnson

THE HOMER P. LITTLE AWARD IN GEOLOGY

Robert Earle Lingner

THE EVENING COLLEGE of Clark University

Liberal Arts Courses

OLOGY

E.140 HUMAN PHYSIOLOGY

John Blair, Assistant Professor of Physiology

An introductory course dealing with the structure and functions of the organ systems of the body.

Mon. 4:20–6:00 lectures; Wed. 4:30–6:30, 7:00–9:00 laboratory. 3 s.h.c. (meets 4 s.h.c. general biology requirement at B.U. for graduate nurses); t.$50. lab. fee $10. (the course is limited to the first 16 who apply)

E.121 HUMAN REPRODUCTION

Rudolph F. Nunnemacher, Associate Professor of Biology

An introductory study of the organs of reproduction, the fundamental processes of early embryonic development and foetal growth, foetal-mother relationship, and a review of congenital abnormalities and their causes.

Thurs. 4:20–6:00. 2 s.h.c. t.$34

CHEMISTRY

E.31 THEORY OF CHEMICAL STRUCTURE AND REACTION MECHANISMS

Arthur E. Martell, Professor of Chemistry

An advance course primarily for graduate chemists in industry, either in research departments or in chemical processing plants. Course will include study of the behavior of organic substances from the viewpoint of resonance and electronic structure. It is suggested that persons interested in this course consult Dr. Martell (after Sept. 4).

Tues. and Thurs. 5:00–6:00. 2 s.h.c. t.$34

ECONOMICS

E.111 FUNDAMENTALS OF THE AMERICAN ECONOMY

Sheldon Schaffer, Assistant Professor of Economics

A study of the American economic system. The student needs no previous formal work in economics. He will examine and discuss basic facts and explanations and apply them to leading economic problems of the day. Typical subjects are: the nature of American capitalism; the price system; money, credit and banking; depression and inflation; economic growth; income distribution; labor; public finance; international trade. Some attention to socialism, communism and fascism.

Thurs. 7:00–9:30. 3 s.h.c. t.$50

ENGLISH

E.11 COMPOSITION AND LITERATURE (part I)

John L. Bradley, Assistant Professor of English

The purpose of English 11 is to develop clarity and accuracy in reading and writing. The first part reviews the principles of rhetoric and offers the student practice in analyzing difficult expository passages.

Wed. 7:00–9:30. 3 s.h.c. t.$50

E.12 PUBLIC SPEAKING

Robert S. Illingworth, Professor of Speech and Drama

A course in the fundamentals of public speaking including the more common speech situations such as speech of introduction, address of welcome, expository and impromptu speeches; problems in human relations; voice tests, vocabulary drill.

Mon. 7:00–9:30. 3 s.h.c. t.$50. (limited enrollment)

E.113 SHAKESPEARE

Karl O. E. Anderson, Chairman, Department of English

An analysis of nine or ten Shakespearean plays, with the main emphasis on *Hamlet*, *Lear*, *Othello*, and *Macbeth*. In addition to tracing the development of Shakespeare as a dramatist, the course will consider carefully the fundamental human issues treated in his works.

Wed. 7:00–8:40. 2 s.h.c. t.$34

EOGRAPHY

E.201b PROBLEM AREAS OF THE WORLD

Samuel VanValkenburg, Director, Graduate School of Geography

No previous work in geography is required. A survey and evaluation of the problem reas of the world, showing how these problems affect the United States and suggest- g possible solutions. Such problem areas as Kashmir, Korea, Formosa, Indo-China, e Middle East, Trieste and Eastern Germany will be covered.

Wed. 7:00–8:40. 2 s.h.c. t.$34

GENERAL INFORMATION

Clark University is expanding its educational services to the Central Massachusetts area by opening an Evening College to which all adults interested in furthering their education are welcome.

There are no admission requirements other than the interest of any adult in taking one or more of the courses offered by The Evening College of Clark University. Courses, which are listed below, are available for both a business administration and a liberal arts program of studies. Some adults will undoubtedly wish to obtain a college degree in an evening program of studies. Others will want to learn more about subjects which can help them advance in their daytime jobs. Still others may just wish to broaden their knowledge generally or enrich their culture. All groups should find subjects to their liking in the variety of courses offered by the Evening College. Courses are approved for veterans eligible under the GI Bill.

Classes begin week of September 21. Registration, Monday and Tuesday, September 14 and 15, 10:00 a.m.–9:00 p.m. Jonas Clark Hall.

GERMAN

E.11 BEGINNING GERMAN

Alfred W. Beerbaum, Instructor in German

This course is designed to lay the groundwork for a good listening, speaking, and reading knowledge of German . . . adapted to the special needs of business men, travelers and students. Classwork to include speaking, enough grammar for readings in modern prose and facile dictionary work. Aims of course are to include ability to understand a simple lecture in German, handle elementary speech situations while traveling in Germany, read modern German prose, scan a German newspaper with dictionary help.

Tues. and Thurs. 4:20–5:35. 2 s.h.c. t.$34

E.141 GERMAN CIVILIZATION

James S. Edwards, Assistant Professor of German

An illustrated lecture course *in English* on the literature, history and the fine arts of the German lands from the Holy Roman Empire to the present day, with special attention to the Reformation, the Age of Enlightenment and the Classical Period.

Wed. 4:20–6:00. 2 s.h.c. t.$34

HISTORY

E.235 THE UNITED STATES IN THE 20TH CENTURY

Robert Campbell, Associate Professor in American History

A survey of the economic, political, and social developments in the United States since 1900 with emphasis on the rise of the United States as a world power.

Wed. 7:00–8:40. 2 s.h.c. t.$34

INTERNATIONAL RELATIONS

E.24 THE COURSE OF WORLD POLITICS, 1914–1953

Sherman S. Hayden, Associate Professor of International Relations

A survey of the course of world politics since 1914, with emphasis on the shifting patterns of power and the rise of new nations and revolutionary doctrines.

Wed. 7:00–8:40. 2 s.h.c. t.$34

PHILOSOPHY

E.13 INTRODUCTION TO PHILOSOPHY THROUGH ETHICS

Robert N. Beck, Assistant Professor of Philosophy

The nature and method of philosophy. The application of philosophical method to contemporary personal and social problems based upon a constructive study of important ethical theories.

Mon. 7:00–8:40. 2 s.h.c. t.$34

PSYCHOLOGY

E.111 GENERAL PSYCHOLOGY

Seymour Wapner, Associate Professor of Psychology

An introduction to the principles of human behavior.

Tues. 7:00–9:30. 3 s.h.c. t.$50

PSYCHOLOGY (Continued)

E.170 INTRODUCTION TO CHILD PSYCHOLOGY

Theodore Leventhal, Instructor-affiliate in Psychology

An introductory course in child psychology with special emphasis on factors affecting the social development of the young child.

Tues. 7:00–8:40. 2 s.h.c. t.$34

SOCIOLOGY

E.111 FOUNDATIONS OF HUMAN BEHAVIOR (part II)

Fred W. Killian, Associate Professor of Sociology

A continuation of the study of social foundations but from the perspective of social problems of our time. Problems of security, anxiety, population pressures, immigration, freedom, democracy, personal adjustment, social disorganization including war—as seen in the framework of man's institutional defects and strengths. (no prerequisites)

Tues. and Thurs. 4:20–5:35. 3 s.h.c. t.$50

SPANISH

E.100 BEGINNING SPANISH

Miss Helen G. Agbay

This course offers an opportunity to obtain a basic foundation for a good listening, speaking and reading knowledge of Spanish and will be adapted to the needs of the class so that it may be helpful to business people and travelers as well as to those wishing to pursue a study of Spanish.

Tues. 7:00–8:40. 2 s.h.c. t.$34

E.111 COMMERCIAL SPANISH CORRESPONDENCE

Raymond E. Barbera, Instructor in Spanish

Deals primarily with the composition and translation of business letters in Spanish and the translation of English correspondence into idiomatic Spanish; of practical use to those who plan to enter the import and export field. Prerequisite: One or more years of Spanish.

Mon. 7:00–9:30. 3 s.h.c. t.$50

Courses in Business Administration

ACCOUNTING

E.117 PRINCIPLES OF ACCOUNTING

George E. Hargest, Associate Professor of
Economics and Business Administration

The organization and use of financial records, with emphasis on their interpretation as well as on the techniques of procedure.

Wed. 7:00–9:30. 3 s.h.c. t.$50

INDUSTRIAL RELATIONS

E.183 MANAGEMENT-EMPLOYEE RELATIONS

F. Eugene Melder, Associate Professor of Economics

This course deals with management-employee relationships with special reference to union and management bargaining. Opportunity for development of perspective and judgment as regards problems of management in shop industrial situations and under the law of labor relations is provided. Discussions and case methods are employed.

Tues. 7:00–8:40. 2 s.h.c. t.$34

MARKETING

E.124 PRINCIPLES OF MARKETING

Eugene J. Kelley, Assistant Professor of Economics
and Acting Director, Business Administration Division

An analysis of the institutions and processes involved in the distribution of goods and services, including a study of consumer motivation, retailing and wholesaling institutions, and marketing policies and practices. Attention will be given to study and discussion of actual marketing problems.

Thurs. 7:00–8:40. 2 s.h.c. t.$34

PERSONNEL MANAGEMENT

E.112 INTRODUCTION TO PERSONNEL MANAGEMENT

Joseph A. Nordstrom, Assistant Professor of Business Administration

A survey of the policies, practices and theory underlying the management of manpower in industry. Representative topics studied are employee selection, training, promotion and transfer; wage payment; and morale. Research into actual industrial situations is included.

Wed. 7:00–9:30. 3 s.h.c. t.$50

ABBREVIATIONS

s.h.c. — semester hours credit
t. — tuition (payable at registration time)
m.r. — minimum registration necessary for course to be given

Further information or additional course announcements may be obtained from:

Dr. Rudolph F. Nunnemacher
Clark University, Worcester, Mass. Tel. 6-1525

PAID
Permit No. 1886
Worcester, Mass.

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11

THE EVENING COLLEGE

OF CLARK UNIVERSITY

950 Main Street • Worcester 10, Mass.

WELLS BINDERY INC.
WALTHAM, MASS.
JUNE 1956